

Georgia Power Company  
333 Piedmont Avenue  
Atlanta, Georgia 30308  
Telephone 404 526-6526

Mailing Address:  
Post Office Box 4545  
Atlanta, Georgia 30302

**W. R. Woodall, Jr.**  
Manager  
Environmental Affairs



March 5, 1987

**PLANT SCHERER**  
**NPDES Permit No. GA 0035564**



Mr. H. F. Reheis, P.E.  
Assistant Director  
Environmental Protection Division  
Georgia Department of Natural Resources  
205 Butler Street, S.E.  
Floyd Towers East  
Atlanta, Georgia 30334

Dear Mr. Reheis:

In your December 29, 1986 letter, you requested that we revise our May 5, 1986 discussion of our proposed chlorination practices at Plant Scherer. Based on the Draft NPDES permit issued with that letter and subsequent discussion with your staff, we submit the following modified chlorination proposal.

- Georgia Power Company no longer plans to install and utilize dechlorination equipment on any of the Plant Scherer discharges. Therefore, all references to dechlorination and associated monitoring activities in the May 5, 1986 letter are rescinded.

We still propose to conduct the Corbicula control chlorination program as previously described. We do not plan to chlorinate the service water system nor the condenser/cooling tower systems for normal biofouling control at the same time that chlorination for Corbicula control is being conducted.

Normal service water and condenser/cooling tower chlorination will be performed approximately one hour per day per unit with no simultaneous discharge of FAC and/or TRC from the cooling tower blowdowns. Chlorine residuals for normal biofouling control will be within permit limits at the cooling tower blowdown and will not exceed two hours per day per unit for TRC.

We also have two comments on the December 29, 1986 Draft NPDES permit. On page 10 of 21, OSN 06 and 07, the first paragraph of the narrative, the second sentence, states "FAC, TRC, chromium, zinc and pH are required for cooling tower overflow. . .". The requirement for pH should be deleted because this is still an internal waste stream at this point and pH is monitored at OSN 01 - Final Plant Discharge to Berry Creek.

Page 19 of 21, Special Requirement 4 states that "The service water will be chlorinated periodically from April through October, . . .". Because these are general date periods we request that the wording of this requirement be changed as follows:

"The service water will be chlorinated periodically during times of the year when the presence of Corbicula in the intake water is likely to occur, . . ."

I hope that this clarification of our chlorination practices and incorporation of our comments will produce a mutually acceptable permit.

If you have questions or comments, please advise.

Yours very truly,



GNG:mp

W. R. Woodall, Jr.

cc: Mr. J. C. Dozier  
Mr. T. E. Hopkins ✓

PERMIT NO. GA 0035564

STATE OF GEORGIA  
DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION

AUTHORIZATION TO DISCHARGE UNDER THE  
NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

In compliance with the provisions of the Georgia Water Quality Control Act (Georgia Laws 1964, p. 416, as amended), hereinafter called the "State Act," the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq.), hereinafter called the "Federal Act," and the Rules and Regulations promulgated pursuant to each of these Acts,

GEORGIA POWER COMPANY  
Post Office Box 4545  
Atlanta, Georgia 30302

is authorized to discharge from a facility located at

Scherer Steam Electric Generating Station  
Georgia Highway 23  
Juliette, Monroe County, Georgia 31406

to receiving waters Berry Creek and Rum Creek to the Ocmulgee River

in accordance with effluent limitations, monitoring requirements and other conditions set forth in Parts I, II, and III hereof.

This permit shall become effective on April 6, 1987.

This permit and the authorization to discharge shall expire at midnight, March 16, 1992.

Signed this 6th day of April, 1987.



A handwritten signature of Leonard Lettice over a horizontal line.  
Director  
Environmental Protection Division

STATE OF GEORGIA  
DEPARTMENT OF NATURAL RESOURCES  
ENVIRONMENTAL PROTECTION DIVISION

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. During the period beginning effective date and lasting through March 16, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 01 - Detention Pond (I Pond) Final Discharge to Berry Creek; 01D - I Pond Bottom Drain.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations		Monitoring Requirements	
	kg/day(1bs/day)	Other Units(Specify) (mg/l)	Measurement	Sample Type
Daily Avg.	Daily Max.	Daily Avg.	Daily Max.	Frequency
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	-
Total Suspended Solids	-	-	90	1/Month
Total Residual Chlorine (TRC)	-	-	-	Grab or Bottom Drain
			3/day(1)	Final Discharge or Bottom Drain

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored once per month by grab sample at the final discharge to Berry Creek or at the bottom drain when discharging.

There shall be no discharge of floating solids or visible foam in other than trace amounts.

- (1) Monitoring and reporting of TRC is required only during continuous service water chlorination for controlling Asiatic clams.

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2. During the period beginning effective date and lasting through March 16, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 01A - Cooling Tower Blowdown for Units 1, 2, 3 and 4.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u> <u>Units(Specify)</u> (mg/l)		<u>Monitoring Requirements</u>			
	Daily Max.	Avg.	Inst. Max.	Frequency	Sample Type	Sample Location
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	-	-	-
Free Available Chlorine (FAC)	-	0.2	0.5	1/Week	Multiple Grabs	Blowdown Line
Total Residual Chlorine (TRC)	-	-	-	1/Week	Multiple Grabs	Blowdown Line
TRC Time (minutes/day/unit)	120	-	-	1/Week	Multiple Grabs	Blowdown Line
Total Residual Chlorine (TRC)	-	-	-	1/Week	Multiple Grabs	Service Water
Total Chromium	0.2	-	-	1/Quarter	Grab	Blowdown Line
Total Zinc	1.0	-	-	1/Quarter	Grab	Blowdown Line

Multiple grab samples are to be collected on 15 minute intervals during periods of FAC and TRC discharges attributable to cooling tower/condenser chlorination. Intervals are to be 3/day during FAC and TRC discharges attributable to continuous service water chlorination. Samples are to be taken before each individual cooling tower blowdown combines with waste streams from other sources.

All numerical discharge limitations and monitoring requirements apply to the individual cooling tower blowdown from each generating unit. The limitations of 0.2/0.5 mg/l of FAC apply to FAC discharge attributable to cooling tower/condenser chlorination (i.e. effluent concentration of FAC above that due to continuous service water system chlorination). Time of discharge of TRC attributable to cooling tower/condenser chlorination is limited to 2 hours/day/unit. Simultaneous discharge of TRC attributable to cooling tower/condenser chlorination is prohibited. Also, see Part III, B.4., 5., and 6., beginning on page 19.

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3. During the period beginning effective date and lasting through March 16, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 01B- Ash Transport Water (includes 02H Wastewater Basin Low Volume Waste).

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations		Monitoring Requirements		
	kg/day(lbs/day)	Other Units(Specify) (mg/l)	Measurement Frequency	Sample Type	Sample Location(1)
Daily Avg.	Daily Max.	Daily Avg.	Daily Max.		
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	-	-
Total Suspended Solids (TSS)	-	30	100	2/Month	Grab
Oil and Grease (O & G)	-	15	20	2/Month	Grab
					Bleedoff

- (1) Samples are to be taken upstream of the final detention pond (I Pond) at the ash transport bleedoff line.

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4. During the period beginning effective date and lasting through March 16, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 02J - Settling Pond Emergency Overflow to Lake Juliette (Ash Transport Water).

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations		Monitoring Requirements		
	kg/day(lbs/day)	Other Units(Specify) (mg/l)	Daily Avg.	Daily Max.	Daily Avg.
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	-	-
Total Suspended Solids (TSS)	-	-	30	100	2/Month
Oil and Grease (O & G)	-	-	15	20	2/Month
					Grab
					Overflow

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 2/month by grab sampling.(1)

There shall be no discharge of floating solids or visible foam in other than trace amounts.  
(1) Monitoring for TSS, Oil and Grease, and pH is required only when an overflow is occurring.

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5. During the period beginning effective date and lasting through March 16, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 02K - Units 1 and 2 Wastewater Basin Emergency Overflow to Lake Juliette (Low Volume Wastes).

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			Monitoring Requirements		
	kg/day(lbs/day)	Other Units(Specify)	(mg/l)	Daily Avg.	Daily Max.	Daily Avg. Daily Max.
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	-	30	100	2/Month	Grab
Oil and Grease (O & G)	-	-	15	20	2/Month	Grab
						Overflow

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 2/month by grab sampling. (1)

There shall be no discharge of floating solids or visible foam in other than trace amounts.

- (1) Monitoring for TSS, Oil and Grease, and pH is required only when an overflow is occurring.

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6. During the period beginning effective date and lasting through March 16, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 02L - Units 3 and 4 Wastewater Basin Emergency Overflow to Lake Juliette (Low Volume Wastes).

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations			Monitoring Requirements		
	kg/day(lbs/day)	Other Units(Specify)	(mg/l)	Daily Avg.	Daily Max.	Daily Avg. Daily Max.
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	-	30	100	2/Month	Grab
Oil and Grease (O & G)	-	-	15	20	2/Month	Grab
						Overflow

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 2/month by grab sampling. (1)

There shall be no discharge of floating solids or visible foam in other than trace amounts.

- (1) Monitoring for TSS, Oil and Grease, and pH is required only when an overflow is occurring.

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7. During the period beginning effective date and lasting through March 16, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 03 - Service Water Final Discharge to Lake Juliette.

Such discharges shall be limited and monitored by the permittee as specified below:

Effluent Characteristic	Discharge Limitations		Monitoring Requirements		
	kg/day (lbs/day)	Other Units(Specify)	Measurement	Sample Frequency	Sample Type
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	-	-
Temperature	-	-	-	1/Week	Grab (1)
Total Residual Chlorine (TRC)	-	-	-	1/Week	Grab Final Discharge

There shall be no discharge of floating solids or visible foam in other than trace amounts.

- (1) Temperature will be monitored and reported for the plant intake and the final discharge. The difference (" $\Delta T$ ") between the intake and discharge temperature shall be calculated and entered on the monitoring report.

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8. During the period beginning effective date and lasting through March 16, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 04 and 05 - Units 1 and 2 Cooling Tower Basin Overflows/Basin Cleaning Wastes to Lake Juliette.

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u> Units(Specify)			<u>Monitoring Requirements</u>			
	Avg.	Inst. Max.	Daily Avg.	Daily Max.	Frequency	Sample Type	Sample Location
Flow-m <sup>3</sup> /day (MGD)	-	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	-	30	100	2/Month	Grab	Overflow
Oil and Grease (O & G)	-	-	15	20	2/Month	Grab	Overflow
Free Available Chlorine (FAC)	0.2	0.5	-	-	1/Week	Multiple Grabs	Overflow
Total Residual Chlorine (TRC)	-	-	-	-	1/Week	Multiple Grabs	Overflow
TRC Time (minutes/day/unit)	-	-	-	120	1/Week	Multiple Grabs	Overflow
Total Chromium	-	-	-	0.2	1/Quarter	Grab	Overflow
Total Zinc	-	-	-	1.0	1/Quarter	Grab	Overflow

The pH shall not be less than 6.0 standard units nor greater than 9.0 standard units and shall be monitored 2/month by grab sampling. There shall be no discharge of floating solids or visible foam in other than trace amounts.

TSS, O & G, and pH are required for basin cleaning waste discharges. FAC, TRC, TRC Time, chromium, zinc, and pH are required for cooling tower overflow discharges. Stop log leakage is not reportable, but its flow and effluent characteristics should be discussed in the bi-annual flow characterization study.

Multiple grab samples are to be collected on 15 minute intervals during periods of FAC and TRC discharges attributable to cooling tower/condenser chlorination. Intervals are to be 3/day during FAC and TRC discharges attributable to continuous service water chlorination. Samples are to be taken before each individual cooling tower overflow combines with waste streams from other sources.

All numerical discharge limitations and monitoring requirements apply to the individual cooling tower overflow from each generating unit. The limitations of 0.2/0.5 mg/l of FAC apply to FAC discharge attributable to cooling tower/condenser chlorination (i.e. effluent concentration of FAC above that due to continuous service water system chlorination). Time of discharge of TRC attributable to cooling tower/condenser chlorination is limited to 2 hours/day/unit. Simultaneous discharge of TRC attributable to cooling tower/condenser chlorination is prohibited. Also, see Part III. B. 4., 5., and 6.

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9. During the period beginning effective date and lasting through March 16, 1992, the permittee is authorized to discharge from outfall(s) serial number(s) 06 and 07 - Units 3 and 4 Cooling Tower Basin Overflows/Basin Cleaning Wastes to Detention Pond (1 Pond).

Such discharges shall be limited and monitored by the permittee as specified below:

<u>Effluent Characteristic</u>	<u>Discharge Limitations</u> Units(Specify)			<u>Monitoring Requirements</u>		
	Avg.	Inst. Max.	Daily Avg.	Daily Max.	Measurement Frequency	Sample Type
Flow-m <sup>3</sup> /Day (MGD)	-	-	-	-	-	-
Total Suspended Solids (TSS)	-	-	30	100	2/Month	Grab
Oil and Grease (O & G)	-	-	15	20	2/Month	Grab
Free Available Chlorine (FAC)	0.2	0.5	-	-	1/Week	Multiple Grabs
Total Residual Chlorine (TRC)	-	-	-	-	1/Week	Multiple Grabs
TRC Time (minutes/day/unit)	-	-	-	120	1/Week	Multiple Grabs
Total Chromium	-	-	-	0.2	1/Quarter	Grab
Total Zinc	-	-	-	1.0	1/Quarter	Grab

TSS and O & G are required for basin cleaning waste discharges. FAC, TRC, TRC Time, is not reportable, but its flow and effluent characteristics should be discussed in the bi-annual flow characterization study.

Multiple grab samples are to be collected on 15 minute intervals during periods of FAC and TRC discharges attributable to cooling tower/condenser chlorination. Samples are to be taken before each individual cooling tower overflow combines with waste streams from other sources.

All numerical discharge limitations and monitoring requirements apply to the individual cooling tower overflow from each generating unit. The limitations of 0.2/0.5 mg/l of FAC apply to FAC discharge attributable to cooling tower/condenser chlorination (i.e. effluent concentration of FAC above that due to continuous service water system chlorination is limited to 2 hours/day/unit). Simultaneous discharge of TRC attributable to cooling tower/condenser chlorination is prohibited. Also, see Part III. B. 4., 5., and 6.

B. SCHEDULE OF COMPLIANCE

1. The permittee shall achieve compliance with the effluent limitations specified for discharges in accordance with the following schedule:

N/A

2. No later than 14 calendar days following a date identified in the above schedule of compliance, the permittee shall submit either a report of progress or, in the case of specific actions being required by identified dates, a written notice of compliance or noncompliance. In the latter case, the notice shall include the cause of noncompliance, any remedial actions taken, and the probability of meeting the next scheduled requirement.

Note: EPD as used herein means the Division of Environmental Protection of the Department of Natural Resources.

C. MONITORING AND REPORTING

1. Representative Sampling

Samples and measurements taken as required herein shall be representative of the volume and nature of the monitored discharge.

2. Reporting

Monitoring results obtained during the previous 3 months shall be summarized for each month and reported on an Operation Monitoring Report (Form WQ 1.45), postmarked no later than the 21st day of the month following the completed reporting period. The first report is due on July 21, 1987.

The EPD may require reporting of additional monitoring results by written notification. Signed copies of these, and all other reports required herein, shall be submitted to the following address:

Georgia Environmental Protection Division  
Industrial Wastewater Program  
205 Butler Street, S.E., Floyd Towers East  
Suite 1070  
Atlanta, Georgia 30334

3. Definitions

- a. The "daily average" discharge means the total discharge by weight during a calendar month divided by the number of days in the month that the production or commercial facility was operating. Where less than daily sampling is required by this permit, the daily average discharge shall be determined by the summation of all the measured daily discharges by weight divided by the number of days sampled during the calendar month when the measurements were made.
- b. The "daily maximum" discharge means the total discharge by weight during any calendar day.
- c. The "daily average" concentration means the arithmetic average of all the daily determinations of concentration made during a calendar month. Daily determinations of concentration made using a composite sample shall be the concentration of the composite sample. When grab samples are used, the daily determination of concentration shall be the arithmetic average (weighted by flow value) of all the samples collected during that calendar day.

- d. The "daily maximum" concentration means the daily determination of concentration for any calendar day.
- e. "Weighted by flow value" means the summation of each sample concentration times its respective flow in convenient units divided by the sum of the respective flows.
- f. For the purpose of this permit, a calendar day is defined as any consecutive 24-hour period.

4. Test Procedures

Test procedures for the analysis of pollutants shall conform to regulations published pursuant to Section 304(g) of the Federal Act.

5. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. The exact place, date, and time of sampling;
- b. The dates the analyses were performed;
- c. The person(s) who performed the analyses;
- d. The analytical techniques or methods used; and
- e. The results of all required analyses.

6. Additional Monitoring by Permittee

If the permittee monitors any pollutant at the location(s) designated herein more frequently than required by this permit, using approved analytical methods as specified above, the results of such monitoring shall be included in the calculation and reporting of the values required in the Operation Monitoring Report Form (WQ 1.45). Such increased monitoring frequency shall also be indicated. The EPD may require more frequent monitoring or the monitoring of other pollutants not required in this permit by written notification.

7. Records Retention

All records and information resulting from the monitoring activities required by this permit including all records of analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation shall be retained by the permittee for a minimum of three (3) years, or longer if requested by the State Environmental Protection Division.

A. MANAGEMENT REQUIREMENTS

1. Change in Discharge

All discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any pollutant identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, production increases, or process modifications which will result in new, different, or increased discharges or pollutants must be reported by submission of a new NPDES application or, if such changes will not violate the effluent limitations specified in this permit, by notice to the EPD of such changes. Following such notice, the permit may be modified to specify and limit any pollutants not previously limited.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with any daily maximum effluent limitation specified in this permit, the permittee shall provide the Water Protection Branch of EPD with the following information, in writing, within five (5) days of becoming aware of such condition:

- a. A description of the discharge and cause of noncompliance; and
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncomplying discharge.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible all treatment or control facilities or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. Adverse Impact

The permittee shall take all reasonable steps to minimize any adverse impact to navigable waters resulting from noncompliance with any effluent limitations specified in this permit, including such accelerated or additional monitoring as necessary to determine the nature and impact of the noncomplying discharge.

5. Bypassing

Any diversion from or bypass of facilities covered by this permit is prohibited, except (i) where unavoidable to prevent loss of life or severe property damage, or (ii) where excessive storm drainage, runoff, or infiltration would damage any facilities necessary for compliance with the effluent limitations and prohibitions of this permit. The permittee shall operate the treatment works, including the treatment plant and total sewer system, to minimize discharge of the pollutants listed in Part I of this permit from combined sewer overflows or bypasses. The permittee shall monitor all overflows and bypasses in the sewer and treatment system. A record of each overflow and bypass shall be kept with information on the location, cause, duration, and peak flow rate. Upon written notification by EPD, the permittee may be required to submit a plan and schedule for reducing bypasses, overflows, and infiltration in the system.

6. Removed Substances

Solids, sludges, filter backwash, or other pollutants removed in the course of treatment or control of wastewaters shall be disposed of in a manner such as to prevent any pollutant from such materials from entering waters of the State.

7. Power Failures

In order to maintain compliance with the effluent limitations and prohibitions of this permit, the permittee shall either:

- a. In accordance with the Schedule of Compliance contained in Part I, provide an alternative power source sufficient to operate the wastewater control facilities;  
or, if such alternative power source is not in existence, and no date for its implementation appears in Part I,
- b. Halt, reduce or otherwise control production and/or all discharges from wastewater control facilities upon the reduction, loss, or failure of the primary source of power to said wastewater control facilities.

B. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Director of EPD, the Regional Administrator of EPA, and/or their authorized representatives, agents, or employees, upon the presentation of credentials:

- a. To enter upon the permittee's premises where an effluent source is located or in which any records are required to be kept under the terms and conditions of this permit; and

b. At reasonable times to have access to and copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to sample any discharge of pollutants.

2. Transfer of Ownership or Control

In the event of any change in control or ownership of facilities from which the authorized discharges emanate, the permittee shall notify the succeeding owner or controller of the existence of this permit by letter, a copy of which shall be forwarded to the Water Protection Branch of EPD.

3. Availability of Reports

Except for data determined by the Director of EPD to be confidential under Section 16 of the State Act or the Regional Administrator of the U. S. Environmental Protection Agency under Section 308 of the Federal Act, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the Atlanta office of the EPD. Effluent data shall not be considered confidential. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in Section 22(b) of the State Act.

4. Permit Modification

After written notice and opportunity for a hearing, this permit may be modified, suspended, revoked or reissued in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any conditions of this permit;
- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts;
- c. A change in any condition that requires either a temporary or permanent reduction or elimination of the permitted discharge; or
- d. To comply with any applicable effluent limitation issued pursuant to the order the United States District Court for the District of Columbia issued on June 8, 1976, in Natural Resources Defense Council, Inc. et.al. v. Russell E. Train, 8 ERC 2120 (D.D.C. 1976), if the effluent limitation so issued:
  - (1) is different in conditions or more stringent than any effluent limitation in the permit; or
  - (2) controls any pollutant not limited in the permit.

5. Toxic Pollutants

Notwithstanding Part II, B-4 above, if a toxic effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 307(a) of the Federal Act for a toxic pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with the toxic effluent standard or prohibition. A draft permit will be provided for review and comments prior to issuance.

6. Civil and Criminal Liability

Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.

7. State Laws

Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation under authority preserved by Section 510 of the Federal Act.

8. Water Quality Standards

Nothing in this permit shall be construed to preclude the modification of any condition of this permit when it is determined that the effluent limitations specified herein fail to achieve the applicable State water quality standards.

9. Property Rights

The issuance of this permit does not convey any property rights in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

10. Expiration of Permit

Permittee shall not discharge after the expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit such information, forms, and fees as are required by the agency authorized to issue permits no later than 180 days prior to the expiration date.

11. Contested Hearings

Any person who is aggrieved or adversely affected by any action of the Director of EPD shall petition the Director for a hearing within thirty (30) days of notice of such action.

12. Severability

The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.

13. Best Available Technology Economically Achievable

Notwithstanding Part II, B-4 above, if an applicable effluent standard or prohibition (including any schedule of compliance specified in such effluent standard or prohibition) is established under Section 301(b)2 of the Federal Act for a pollutant which is present in the discharge and such standard or prohibition is more stringent than any limitation for such pollutant in this permit, this permit shall be revised or modified in accordance with such effluent standard or prohibition. A draft permit will be provided for review and comments prior to issuance.

14. The permittee will implement best management practices to control the discharge of hazardous and/or toxic materials from ancillary manufacturing activities. Such activities include, but are not limited to, materials storage areas; in-plant transfer, process and material handling areas; loading and unloading operations; plant site runoff; and sludge and waste disposal areas.

PART III

A. PREVIOUS PERMITS

1. All previous State water quality permits issued to this facility, whether for construction or operation, are hereby revoked by the issuance of this permit. This action is taken to assure compliance with the Georgia Water Quality Control Act, as amended, and the Federal Water Pollution Control Act, as amended. Receipt of the permit constitutes notice of such action. The conditions, requirements, terms and provisions of this permit authorizing discharge under the National Pollutant Discharge Elimination System govern discharges from this facility.

B. SPECIAL REQUIREMENTS

1. There shall be no discharge of polychlorinated biphenyl compounds such as those commonly used for transformer fluid.
2. Any metal cleaning wastes generated will be contained for further treatment or disposal in a manner to permit compliance at time of discharge with requirements listed below. This applies to any preoperational chemical cleaning of metal process equipment also. The treatment and disposal procedures shall be discussed in the bi-annual flow characterization study.
3. The quantity of pollutants discharged in metal cleaning waste shall not exceed the quantity determined by multiplying the flow of metal cleaning wastes times the concentrations listed below. All effluent characteristics shall be monitored 1/week by grab sampling when a discharge is occurring.

Effluent Characteristic	Discharge Limitation (mg/l)	
	Daily Average	Daily Maximum
Total Suspended Solids	30	100
Oil and Grease	15	20
Copper	1.0	1.0
Iron	1.0	1.0

4. Neither free available chlorine (FAC) nor total residual chlorine (TRC) may be discharged from any unit for more than two hours in any one day and not more than one unit in any plant may discharge free available or total residual chlorine at any one time unless the utility can demonstrate to the Director that the units in a particular location cannot operate at or below this level of chlorination. The permittee has demonstrated the need to continuously chlorinate the service water system to control asiatic clams. The present intent is to chlorinate the service water periodically from April through October, five days per month for 24 hours per day at an initial level of 1.0 mg/l FAC. Other months, longer durations, and lower FAC levels may be used. This chlorination practice will result occasionally in the discharge of FAC or TRC from each cooling tower simultaneously and for more than 2 hours per day. The permittee must reduce the chlorine discharge if possible and shall perform a study to determine the minimum practicable chlorine levels, frequencies, and duration of continuous chlorination for the service water system to adequately control asiatic clams. A plan of study with a schedule of activities must be submitted to the EPD within 90 days after the effective date of the permit and implemented upon approval.

5. In accordance with 40 CFR 423.11(k), the free available chlorine (FAC) average means the average over any individual chlorine release period of 2 hours per day per unit. The FAC maximum is the instantaneous maximum which may occur at any time. Further, the permittee will develop a system for monitoring and recording total time of FAC and TRC discharges. The results shall be reported in a suitably concise form beginning with the first scheduled Operation Monitoring Report (OMR) and continuing on each OMR thereafter.
6. In accordance with 40 CFR 423.13(d)(3), the permittee shall certify every two years in the flow characterization study that no priority pollutant other than chromium or zinc is above detectable limits in outfalls 01A, 04, 05, 06, and 07 (cooling tower blowdowns or overflows).
7. In the event that waste streams from various sources are combined for treatment or discharge, the quantity of each pollutant or pollutant property controlled by this permit shall not exceed the specified limitations for that source.
8. The Director may modify any effluent limitation upon request of the permittee if such limitation is covered by an approved variance or by an amendment to the Federal Water Pollution Control Act.
9. The permittee shall determine the flow of the various waste streams and submit this determination to the Director once every two years.
10. All sewage treatment plants (STP) must be properly operated and maintained. This applies to 02A Main STP, 02B Coal Handling STP, 02C Unit 1 Temporary STP, and 02D Unit 2 Temporary STP.
11. Every two years, the permittee shall review the water treatment chemicals other than chlorine discharged to State waters. This includes, but is not limited to microbiocides, corrosion inhibitors, and dispersants. These chemicals shall be used and disposed of in accordance with the manufacturers' instructions unless other requirements are imposed by EPD.

As part of the flow characterization study of Item 13. below, the permittee shall submit to EPD a current inventory of all chemicals discharged during the previous twenty-four months.

12. Forms other than Form WQ 1.45 may be used for the quarterly Operation Monitoring Report upon approval by the EPD.
13. Summary of flow characterization study requirements from preceding pages:
  - a. Outfalls 04, 05, 06, and 07 stop log leakage flow and effluent characteristics.
  - b. Metal cleaning waste treatment and disposal procedures.
  - c. Flow determination of various waste streams.
  - d. Water treatment chemical inventory.
  - e. Cooling tower blowdown priority pollutant certification per 40 CFR 423.13(d)(3).

Please print or type in the unshaded areas only  
Fill-in areas are spaced for elite type, i.e., 12 character inch).

6H0035564

Form Approved OMB No. 158-R0175

<b>EPA</b>		U.S. ENVIRONMENTAL PROTECTION AGENCY <b>GENERAL INFORMATION</b> Consolidated Permits Program (Read the "General Instructions" before starting.)									
GENERAL LABEL ITEMS											
I. EPA I.D. NUMBER											
II. FACILITY NAME											
V. FACILITY MAILING ADDRESS											
VI. FACILITY LOCATION											
<b>PLEASE PLACE LABEL IN THIS SPACE</b>											
II. POLLUTANT CHARACTERISTICS											

**INSTRUCTIONS:** Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold-faced terms.

SPECIFIC QUESTIONS			SPECIFIC QUESTIONS								
YES	NO	FORM ATTACHED	YES	NO	FORM ATTACHED						
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.? (FORM 2A)			X			B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)			X		
16	17	18	19	20	21	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)			X		
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)			X	X		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)			X		
22	23	24	25	26	27	H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy? (FORM 4)			X		
E. Do you or will you treat, store, or dispose of hazardous wastes? (FORM 3)			X			J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			X		
28	29	30	31	32	33	40	41	42	43	44	45
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)			X			I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)			X		
34	35	36	46	47	48	49	50	51	52	53	54

SCHERER STEAM ELECTRIC GENERATING STA.												
IV. FACILITY CONTACT												
A. NAME & TITLE (last, first, & title)						B. PHONE (area code & no.)						
2. R. E. LEY T. E., MGR. OF ENVR. AFFRS.						404 526 7100						
45 46 - 48 49 - 51 52 - 53												
V. FACILITY MAILING ADDRESS												
A. STREET OR P.O. BOX												
3 P. O. B. O X 2 0 6												
45												
B. CITY OR TOWN						C. STATE	D. ZIP CODE					
4 JULIETTE E						G A	3 1 0 4 6					
45 46 47 - 51						48	52 - 53					
VI. FACILITY LOCATION												
A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER												
5 H I G H W A Y 2 3												
45												
B. COUNTY NAME												
MONROE												
46 47 - 51												
C. CITY OR TOWN						D. STATE	E. ZIP CODE					F. COUNTY CODE (if known)
6 JULIETTE E						G A	3 1 0 4 6					52 - 53
46 47 - 51						48	52 - 53					54

## VII. SIC CODES (4-digit, in order of priority)

## A. FIRST

c 7 4 9 1 1 (specify)  
 15 16 17 18 19  
 Generation of Electricity

## B. SECOND

c 7 (specify)  
 15 16 17 18 19

## C. THIRD

c 7 (specify)  
 15 16 17 18 19

## D. FOURTH

c 7 (specify)  
 15 16 17 18 19

## VIII. OPERATOR INFORMATION

## A. NAME

c 8 GEORGIA POWER COMPANY  
 15 16

B. Is the name listed in Item VIII-A also the owner?  
 YES  NO  
 66

## C. STATUS OF OPERATOR (Enter the appropriate letter into the answer box; if "Other", specify.)

F = FEDERAL M = PUBLIC (other than federal or state)  
 S = STATE O = OTHER (specify)  
 P = PRIVATE

P (specify)  
 36

## D. PHONE (area code &amp; no.)

c A 4 0 4 5 2 6 6 5 2 6  
 15 16 - 38 19 - 21 22 - 29

## E. STREET OR P.O. BOX

P. O. B O X 4 5 4 5  
 26

## F. CITY OR TOWN

c BAT LANTA  
 15 16

## G. STATE

G A

## H. ZIP CODE

3 0 3 0 2

## I. INDIAN LAND

Is the facility located on Indian lands?  
 YES  NO  
 52

## X. EXISTING ENVIRONMENTAL PERMITS

## A. NPDES (Discharges to Surface Water)

c T I 9 N GA 0035564  
 15 16 17 18

## D. PSD (Air Emissions from Proposed Sources)

c T I 9 P  
 15 16 17 18

## B. UIC (Underground Injection of Fluids)

c T I 9 U  
 15 16 17 18

## E. OTHER (specify)

(specify)

## C. RCRA (Hazardous Wastes)

c T I 9 R  
 15 16 17 18

## E. OTHER (specify)

(specify)

## XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

## XII. NATURE OF BUSINESS (provide a brief description)

Generation of electricity through the combustion of oil and coal.

- \* Plant Scherer is jointly owned by Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton.

## XIII. CERTIFICATION (see instructions)

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

## A. NAME &amp; OFFICIAL TITLE (type or print)

Vice Pres. & Gen. Manager  
 Fossil & Hydro

## B. SIGNATURE

George F. Head

## C. DATE SIGNED

5-13-81

## COMMENTS FOR OFFICIAL USE ONLY

15 16

A Form 3510-1 (6-80) REVERSE

Please print or type in the unshaded areas only.

ITEM I.D. NUMBER (copy from Item 1 of Form 1)

Form Approved OMB No. 158-R0173

FORM  
28  
NPDES

U.S. ENVIRONMENTAL PROTECTION AGENCY  
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER  
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS  
Consolidated Permits Program

## I. OUTFALL LOCATION

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER (list)	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER (name)
	1. DEG.	2. MIN.	3. SEC.	1. DEG.	2. MIN.	3. SEC.	
001	33	03	06	33	48	29	Ocmulgee River via Berry Creek

## II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

- A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined (e.g., for certain mining activities), provide a pictorial description of the nature and amount of any sources of water and any collection or treatment measures.
- B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NUMBER (list)	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT	
	a. OPERATION (list)	b. AVERAGE FLOW (include units)	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1
001	001A Cooling Tower Blowdown	24,000 gpm		4A
	001B Ash Pond Discharge	50,000 gpm		4A 4C
001B	001B <sub>1</sub> Collection pond	1,300 gpm*		
	001B <sub>2</sub> Waste Water Basin	1,500 gpm*		
	001B <sub>3</sub> Fly Ash Transport	24,400 gpm		
	001B <sub>4</sub> Bottom Ash Transport	12,800 gpm		
001B	001B <sub>1A</sub> Coal Pile Runoff	-		
	001B <sub>1B</sub> Sewage Treatment Plt	120 gpm		
001B	001B <sub>2A</sub> Boiler Blowdown	480 gpm		
	001B <sub>2B</sub> Water Treatment Plt	1,500 gpm		
	001B <sub>2C</sub> Condensate Polisher Waste	1,500 gpm		

\* Intermittent Discharges

OFFICIAL USE ONLY (effluent guidelines sub-categories)

C. Except for storm runoff, leaks, or spills, are any  
 YES (complete the following table)

the discharges described in Items II-A or B intermittent or seasonal?  
 NO (go to Section III)

1. OUTFALL NUMBER (list)	2. OPERATION(s) CONTRIBUTING FLOW (list)	3. FREQUENCY		4. FLOW			
		a. DAYS PER WEEK (specify average)	b. MONTHS PER YEAR (specify average)	a. FLOW RATE (in mgd)	b. TOTAL VOLUME (specify with units)	c. DURATION (in days)	
001B <sub>1</sub>	Coal Pile Runoff Sewage Treatment Plant			1. LONG TERM AVERAGE	2. MAXIMUM DAILY	1. LONG TERM AVERAGE	2. MAXIMUM DAILY
001B <sub>2</sub>	Boiler Blowdown Water Treatment Plant Condensate Polisher Waste						
* Data unavailable prior to operation of systems.							

### III. MAXIMUM PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?  
 YES (complete Item III-B)       NO (go to Section IV)

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?  
 YES (complete Item III-C)       NO (go to Section IV)

C. If you answered "Yes" to Item III-B, list the quantity which represents an actual measurement of your maximum level of production, expressed in the terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. MAXIMUM QUANTITY			2. Affected Outfalls (list outfall numbers)
a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. (specify)	

### V. IMPROVEMENTS

A. Are you now required by any Federal, State or local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.  
 YES (complete the following table)       NO (go to Item IV-B)

IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. Affected Outfalls		3. BRIEF DESCRIPTION OF PROJECT	4. Final Compliance Date	
	B. NO.	b. SOURCE OF DISCHARGE		B. REQUIRED	D. PROJECTED

OPTIONAL: You may attach additional sheets describing any additional water pollution control programs for other environmental projects which may affect your business you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.  MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED

CONTINUED FROM PAGE 2

EPA I.D. N

JER (copy from Item 1 of Form 1)

Form Approved OMB No. 158-R0173

## V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B, & C: See instructions before proceeding — Complete one set of tables for each outfall — Annotate the outfall number in the space provided.  
 NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be produced from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your production.

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE

## VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

A. Is any pollutant listed in Item V-C a substance or a component of a substance which you do or expect that you will over the next 5 years use or manufacture as an intermediate or final product or byproduct?

YES (list all such pollutants below)

NO (go to Item VI-B)

B. Are your operations such that your raw materials, processes, or products can reasonably be expected to vary so that your discharges of pollutants may during the next 5 years exceed two times the maximum values reported in Item V?

YES (complete Item VI-C below)

NO (go to Section VII)

C. If you answered "Yes" to Item VI-B, explain below and describe in detail the sources and expected levels of such pollutants which you anticipate will be discharged from each outfall over the next 5 years, to the best of your ability at this time. Continue on additional sheets if you need more space.

**VII. BIOLOGICAL TOXICITY TESTING DATA**

Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of your discharges or on a receiving water in relation to your discharge within the last 3 years?

YES (identify the test(s) and describe their purposes below)

NO (go to Section VIII)

**VIII. CONTRACT ANALYSIS INFORMATION**

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

YES (list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)

NO (go to Section IX)

A. NAME	B. ADDRESS	C. TELEPHONE (area code & no.)	D. POLLUTANTS ANALYZED (list)
NUS Corporation	900 Gemini Avenue Houston, Texas 77058	(713) 448-1810	All

**X. CERTIFICATION**

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the impossibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE (type or print)

George F. Head, Vice President &  
General Manager, Fossil & Hydro

B. PHONE NO. (area code & no.)

(404) 526-7893

C. SIGNATURE

D. DATE SIGNED

5-13-81

PLEASE PRINT OR TYPE IT IN. USE SEPARATE SHEETS FOR THE SAME FORM. You may use two or more of this instruction or separate sheets for the same form instead of completing one sheet.

PART A - D. NUMBER (copy from Item 1 of Form 1)

V. TAKE ONE EFFLUENT CHARACTERISTICS FORM FOR EACH POLLUTANT

PART A - Y-O, must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT			3. UNITS (specify if blank)			4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE (if available)	b. MAXIMUM DAILY VALUE (if available)	c. LONG TERM VALUE (if available)	d. NO. OF ANALYSES	e. CONCEN- TRATION (1) MASS (2) CONCENTRATION	f. NO. OF ANALYSES	g. LONG TERM VALUE (1) MASS (2) CONCENTRATION	h. NO. OF ANALYSES	i. CONCEN- TRATION (1) MASS (2) CONCENTRATION
a. Biochemical Oxygen Demand (BOD)	3.0	2,685				1	mg/l	1	lbs/day
b. Chemical Oxygen Demand (COD)	13.0	11,636							
c. Total Organic Carbon (TOC)	9.0	8,056							
d. Total Suspended Solids (TSS)	11/0	9,846							
e. Ammonia (as N)	<0.1	-							
f. Flow		74,000 gpm							
g. Temperature (winter)		-					°C		
h. Temperature (summer)		-					°C		
i. pH	7.8	MINIMUM MAXIMUM 8.5	MINIMUM MAXIMUM				STANDARD UNITS		
PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each outfall. See the instructions for additional details and requirements.									
1. POLLUTANT	2. MARK X OR DASH IF NEVER PRESENT	3. EFFLUENT CONCENTRATION	4. UNITS	5. INTAKE (optional)					
a. Bronidite (24959-67-9)	X	< 2							
b. Chlorine, Total Residual	X	< 0.1							
c. Color	X	< 5							
d. Fecal Coliform	X	0							
e. Fluoride (16984-49-8)	X	0.2	179						
f. Nitrate - Nitrite (as N)	X	0.2	179						

1. POLLUTANT AND CAS NO. (if available)	2. MARK X	3. EFFLUENT								4. UNITS				5. INTAKE (optional)			
		4. CONCENTRATION (as Mass)	5. MAXIMUM DAILY VALUE (if available)	6. CONCENTRATION (as Mass)	7. MAXIMUM DAILY VALUE (if available)	8. CONCENTRATION (as Mass)	9. NO. OF ANALYSES	10. CONCENTRATION (as Mass)	11. NO. OF ANALYSES	12. CONCENTRATION (as Mass)	13. INFLUENT CONCENTRATION (as Mass)	14. INFLUENT CONCENTRATION (as Mass)	15. INFLUENT CONCENTRATION (as Mass)	16. INFLUENT CONCENTRATION (as Mass)			
g. Nitrogen, Total Organic (as N)	X	0.9	805								1	mg/l	lbs/day				
h. Oil and Grease	X	<1															
i. Phosphorus (as P), Total (7723-14-0)	X		0.19	170													
l. Radioactivity																	
(1) Alpha, Total	X																
(2) Beta, Total	X																
(3) Radium, Total	X																
(4) Radium 226, Total	X																
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	X		98	88,000													
l. Sulfide (as S)	X	< 0.1															
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)	X	< 0.5															
n. Surfactants	X	0.004	4														
o. Aluminum, Total (7429-90-5)	X	0.8	716														
p. Barium, Total (7440-39-3)	X	< 0.2															
q. Boron, Total (7440-42-8)	X	1.3	1,200														
r. Cobalt, Total (7440-46-4)	X	< 0.02															
s. Iron, Total (7439-89-6)	X	0.43	400														
t. Magnesium, Total (7439-95-4)	X	3.7	3,300														
u. Molybdenum, Total (7439-98-7)	X	0.14	125														
v. Manganese, Total (7439-96-5)	X	0.12	110														
w. Tin, Total (7440-31-5)	X	< 1															
x. Titanium, Total (7440-32-6)	X	< 2															

PART C If you are a primary industry and this outfall contains phenols, refer to Table 2-c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to track column 2-a (secondary industries, non-process wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outfall.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTED b. DE- TERMINED c. BY TEST d. BY EQUIP- MENT e. CON- CENTRA- TION	3. EFFLUENT			4. UNITS			5. INTAKE (optional)		
		a. MAXIMUM DAILY VALUE (if available)	b. MAXIMUM 30 DAY VALUE (if available)	c. LONG TERM AVAILABLE VALUE	d. NO. OF ANALYSES	e. b. CONCEN- TRATION	f. b. MASS	g. b. LONG TERM AVERAGE VALUE	h. b. NO. OF ANAL- YSES	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>										
1M. Antimony, Total (7440-36-0)	X X <0.1									
2M. Arsenic, Total (7440-38-2)	X X 0.03	30								
3M. Beryllium, Total (7440-41-7)	X X <0.01									
4M. Cadmium, Total (7440-43-9)	X X <0.005									
5M. Chromium, Total (7440-47-3)	X X <0.03									
6M. Copper, Total (7550-50-8)	X X 0.06	55								
7M. Lead, Total (7439-97-6)	X X <0.05									
8M. Mercury, Total (7439-97-6)	X X <0.02									
9M. Nickel, Total (7440-02-0)	X X <0.02									
10M. Selenium, Total (7782-49-2)	X X 0.01	10								
11M. Silver, Total (7440-22-4)	X X <0.02									
12M. Thallium, Total (7440-28-0)	X X <0.05									
13M. Zinc, Total (7440-66-6)	X X 0.04	36								
14M. Cyanide, Total (57-12-5)	X X <0.01									
15M. Phenols, Total	X X 0.03	30								
<b>DIOXIN</b>										
2,3,7,8-Tetra-chlorodibenzop-Dioxin (1764-01-6)										

**DESCRIBE RESULTS**

1. POLLUTANT NUMBER	2. MARK X	3. EFFLUENT COMPOSITION			4. UNITS			5. INTAKE (optional)		
		(f) CONCEN- TRATION	(g) CONCEN- TRATION	(h) CONCEN- TRATION	(a) MASS	(b) MASS	(c) MASS	(d) CONCEN- TRATION	(e) MASS	(f) CONCEN- TRATION
1. Acetone (107-02-3)	X	X	X	X	<100					
2V. Acetonitrile (107-13-1)	X	X	X	X	<100					
3V. Benzene (71-43-2)	X	X	X	X	<10					
4V. Bis(Chloro- methyl) Ether (642-88-1)	X	X	X	X	<10					
5V. Bromoform (75-26-2)	X	X	X	X	<10					
6V. Carbon Tetrachloride (66-23-6)	X	X	X	X	<10					
7V. Chlorobenzene (108-90-7)	X	X	X	X	<10					
8V. Chlorodi- bromomethane (124-48-1)	X	X	X	X	<10					
9V. Chloroethane (76-00-3)	X	X	X	X	<10					
10V. 2-Chloro- ethylvinyl Ether (110-76-8)	X	X	X	X	<10					
11V. Chloroform (67-66-3)	X	X	X	X	<10					
12V. Dichloro- bromomethane (75-27-4)	X	X	X	X	<10					
13V. Dichloro- difluoromethane (75-71-8)	X	X	X	X	<10					
14V. 1,1-Dichloro- ethane (75-34-3)	X	X	X	X	<10					
15V. 1,2-Dichloro- ethane (107-06-2)	X	X	X	X	<10					
16V. 1,1-Dichloro- ethylene (75-35-4)	X	X	X	X	<10					
17V. 1,2-Dichloro- propane (78-87-5)	X	X	X	X	<10					
18V. 1,2-Dichloro- propylene (542-75-6)	X	X	X	X	<10					
19V. Ethylbenzene (100-41-4)	X	X	X	X	<10					
20V. Methyl Bromide (74-83-9)	X	X	X	X	<10					
21V. Methyl Chloride (74-87-3)	X	X	X	X	<10					

1. COLLECTOR'S NAME AND FAX NUMBER	2. METHOD NUMBER	3. SAMPLE NUMBER	4. DATE COLLECTED	5. TAKE (optional)	6. RESULTS		7. COMMENTS
					a. CONCEN- TRATION	b. MASS ( $\mu$ g)	
<b>GC/MS FRACTION - VOLATILE COMPOUNDS (continued)</b>							
22V. Methylene Chloride (75-09-2)	X	X	X	< 10			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)	X	X	X	10			
24V. Tetrachloroethylene (127-18-4)	X	X	X	10			
25V. Toluene (108-88-3)	X	X	X	10			
26V. 1,2-Trans-Dichloroethylene (156-60-5)	X	X	X	10			
27V. 1,1,1-Trichloroethane (71-55-6)	X	X	X	10			
28V. 1,1,2-Trichloroethane (79-00-5)	X	X	X	10			
29V. Trichloroethylene (79-01-6)	X	X	X	10			
30V. Trichlorofluoromethane (75-69-4)	X	X	X	10			
31V. Vinyl Chloride (75-01-4)	X	X	X	10			
<b>GC/MS FRACTION - ACID COMPOUNDS</b>							
1A. 2-Chlorophenoxy (95-57-8)	X	X	X	< 25			
2A. 2,4-Dichlorophenol (120-83-2)	X	X	X	< 25			
3A. 2,4-Dimethylphenol (105-67-9)	X	X	X	< 25			
4A. 4,6-Dinitro-O-Cresol (634-52-1)	X	X	X	< 250			
5A. 2,4-Dinitrophenol (51-28-5)	X	X	X	< 250			
6A. 2-Nitrophenol (88-75-5)	X	X	X	< 25			
7A. 4-Nitrophenol (110-02-7)	X	X	X	< 25			
8A. p-Chloro-M-Cresol (59-50-7)	X	X	X	< 25			
9A. Pentachlorophenol (87-86-5)	X	X	X	< 25			
10A. Phenol (108-95-2)	X	X	X	< 25			
11A. 2,4,6-Tri-chlorophenol (88-06-2)	X	X	X	< 25			

1. POLLUTANT AND CAS NUMBER	2. MARK 'X' (if available)	3. EFFLUENT CONCENTRATION								5. INTAKE (optional)							
		a) MAX. DAILY AMOUNT DETER- MINED BY GC/MS	b) MAX. DAILY AMOUNT DETER- MINED BY GC/MS	c) REF. CONCEN- TRATION EQ.	d) MAXIMUM DAILY VALUE	e) MAXIMUM 30 DAY VALUE (if available)	f) LONG TERM CONCENTRATION	g) MASS	h) CONCEN- TRATION	i) NO. OF ANAL- YSES	j) NO. OF ANAL- YSES	k) CONCEN- TRATION	l) MASS	m) LONG TERM CONCENTRATION	n) MASS	o) CONCEN- TRATION	p) MASS
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS																	
1B. Acenaphthene (83-32-9)	X	X	X	< 10													1 ug/l
2B. Acenaphthylene (208-96-0)	X	X	X	< 10													
3B. Anthracene (120-12-7)	X	X	X	< 10													
4B. Benzidine (92-87-5)	X	X	X	< 10													
5B. Benzo (a) Anthracene (66-55-3)	X	X	X	< 10													
6B. Benzo (a) Pyrene (60-32-8)	X	X	X	< 10													
7B. 3,4-Benzo- fluoranthene (205-99-2)	X	X	X	< 10													
8B. Benzo (ghi) Perylene (191-24-2)	X	X	X	< 25													
9B. Benzo (h) Fluoranthene (207-08-9)	X	X	X	< 10													
10B. Bis (2-Chloro- ethoxy) Methane (111-91-1)	X	X	X	< 10													
11B. Bis (2-Chloro- ethyl) Ether (111-44-4)	X	X	X	< 10													
12B. Bis (2-Chloro- isopropyl) Ether (39638-32-9)	X	X	X	< 10													
13B. Bis (2-Ethyl- hexyl) Phthalate (117-81-7)	X	X	X	< 10													
14B. 4-Bromo- phenyl Phenyl Ether (101-56-3)	X	X	X	< 10													
15B. Butyl Benzyl Phthalate (85-68-7)	X	X	X	< 10													
16B. 2-Chloro- naphthalene (91-58-7)	X	X	X	< 10													
17B. 4-Chloro- Phenyl Phenyl Ether (7005-72-3)	X	X	X	< 10													
18B. Chrysene (218-01-8)	X	X	X	< 10													
19B. Dibenz (a,h) Anthracene (53-70-3)	X	X	X	< 25													
20B. 1,2-Dichloro- benzene (95-50-1)	X	X	X	< 10													
21B. 1,3-Dichloro- benzene (541-73-1)	X	X	X	< 10													

CONTINUE ON PAGE V-7

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001

ITEM	NAME AND SYNTHETIC NAME (if applicable)	MAXIMUM DAILY RELEASE AMOUNT (kg/day)	B. EMISSIONS OF GASES AND PARTICLES TO AIR CONCENTRATION LEVELS	C. EMISSIONS OF SOLVENTS AND COMBUSTION PRODUCTS	D. EMISSIONS OF SOLVENTS AND COMBUSTION PRODUCTS	4 UNITS		H. WASTE MANAGEMENT METHOD (if applicable)	I. MASS BALANCE (if applicable)	J. CONCEN- TRATION VALUES (if applicable)	K. CONCEN- TRATION VALUES (if applicable)	L. CONCEN- TRATION VALUES (if applicable)	M. CONCEN- TRATION VALUES (if applicable)
						A) GC/MS ANALYSIS	B) GC/MS ANALYSIS						
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)</b>													
22B. 1,4-Dichloro- benzene (106-46-7)	X	X	<10							1	ug/l		
23B. 3,3'-Dichloro- benzidine (91-94-1)	X	X	<10										
24B. Diethyl- Phthalate (84-66-2)	X	X	<10										
25B. Dimethyl- Phthalate (131-11-3)	X	X	<10										
26B. Di-N-Butyl- Phthalate (84-74-2)	X	X	<10										
27B. 2,4-Dinitro- toluene (121-14-2)	X	X	<10										
28B. 2,6-Dinitro- toluene (606-20-2)	X	X	<10										
29B. Di-N-Octyl- Phthalate (1117-84-0)	X	X	<10										
30B. 1,2-Diphenyl- hydrazine (as AzO- benzene) (1122-66-7)	X	X	<10										
31B. Fluoranthene (206-44-0)	X	X	<10										
32B. Fluorene (86-73-7)	X	X	<10										
33B. Hexa- chlorobenzene (118-71-1)	X	X	<10										
34B. Hexa- chlorobutadiene (87-68-3)	X	X	<10										
35B. Hexachloro- cyclopentadiene (77-47-4)	X	X	<10										
36B. Hexachloro- ethane (67-72-1)	X	X	<10										
37B. Indeno (1,2,3- <i>cd</i> ) pyrene (193-39-5)	X	X	<25										
38B. Isophorone (78-59-1)	X	X	<10										
39B. Naphthalene (91-20-3)	X	X	<10										
40B. Nitrobenzene (98-95-3)	X	X	<10										
41B. N-Nitro- sodimethylamine (62-76-9)	X	X	<50										
42B. N-Nitroso- N-Propylamine (621-64-7)	X	X	<10										

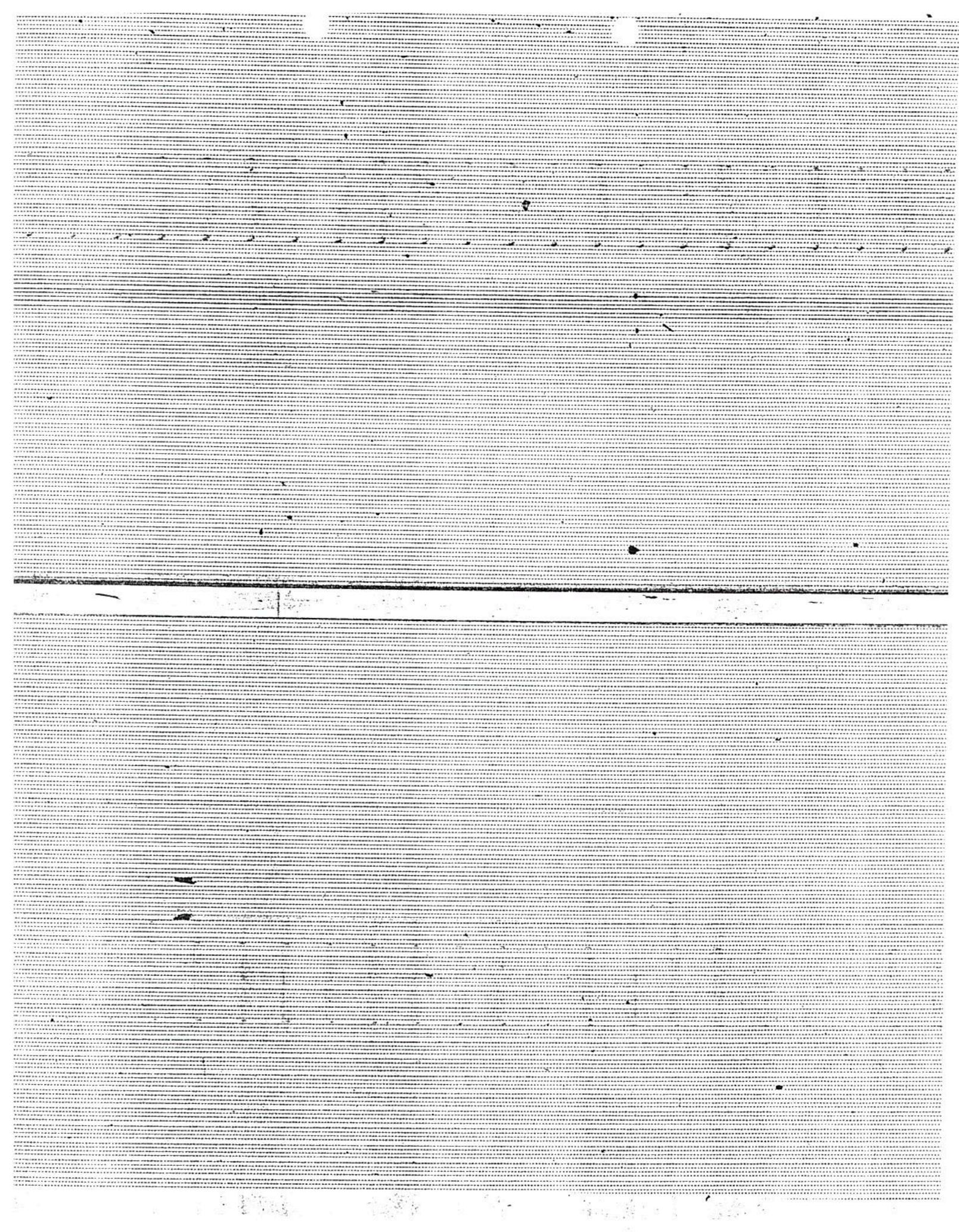
CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK X IF RELEVANT OR UNKNOWN AND OUT- LID	3. EFFLUENT CONCENTRATION (if available)			4. UNITS			5. INTAKE (optional)			
		a. DAILY CONCENTRATION	b. MAXIMUM DAILY VALUE	c. LONG TERM CONCENTRATION	d. CONCEN- TRATION	e. NO OF ANALYSYS	f. LONG TERM VALUE	g. NO OF ANALYSYS	i. LONG TERM AVERAG- E VALUE	j. NO OF ANALY- SES	k. MASS
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)											
43B. N-Nitro- sodiphenylamine (B6-30-G)	X	X	<10								
44B. Phenanthrene (B6-01-B)	X	X	<10								
45B. Pyrene (129-00-0)	X	X	<10								
46B. 1,2,4-Tri- chlorobenzene (120-82-1)	X	X	<10								
GC/MS FRACTION - PESTICIDES											
1P. Aldrin (309-00-2)		X									
2P. $\alpha$ -BHC (319-84-6)		X									
3P. $\beta$ -BHC (319-85-7)		X									
4P. $\gamma$ -BHC (58-89-9)		X									
5P. $\delta$ -BHC (319-86-8)		X									
6P. Chlordane (57-74-9)		X									
7P. 4,4'-DDT (50-29-3)		X									
8P. 4,4'-DDE (72-55-9)		X									
9P. 4,4'-DDD (72-54-8)		X									
10P. Dieldrin (60-57-1)		X									
11P. $\alpha$ -Endosulfan (115-29-7)		X									
12P. $\beta$ -Endosulfan (115-29-7)		X									
13P. Endosulfan Sulfate (1031-07-8)		X									
14P. Endrin (72-20-8)		X									
15P. Endrin Aldehyde (7421-93-4)		X									
16P. Heptachlor (76-44-8)		X									

CONTINUED FROM PAGE V-8

001

1. POLLUTANT AND CAS NUMBER (if available)	2. WORK X	3. EFFLUENT CATEGORY (if available)	4. UNITS	5. INTAKE (continued)			
				a. MAXIMUM DAILY VALUE (1) MASS CONCENTRATION	b. CONCEN- TRATION (1) MASS CONCENTRATION	c. LONG TERM AVERAGE VALUE (1) MASS CONCENTRATION	d. NO. OF ANAL- YSES (1) MASS
<b>GC/MS FRACTION - PESTICIDES (continued)</b>							
17P. Heptachlor Epoxyde (1024-57-3)	X		1 ug/l				
18P. PCB-1242 (63469-21-9)	X						
19P. PCB-1254 (11097-69-1)	X						
20P. PCB-1221 (11104-28-2)	X						
21P. PCB-1232 (11141-16-5)	X						
22P. PCB-1248 (12672-29-6)	X						
23P. PCB-1260 (11096-82-5)	X						
24P. PCB-1016 (12674-11-2)	X						
25P. Toxaphene (8001-35-2)	X						



PLEASE PRINT OR TYPE IN THE UNSHAPED AREAS ONLY. You may repeat some or all of this information on separate sheets for the same format instead of completing this page.

FEDERAL ID. NUMBER (copy from Item 1 of Form 1)

Form Approved  
OMB No. 2502-0158  
Outdated versions of this form are  
available at www.epa.gov/epahome  
or by calling 1-800-424-1302.

**PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each pollutant. See instructions for additional details.**

1. POLLUTANT	2. EFFLUENT			3. UNITS (specify if blank)			4. INTAKE (optional)		
	a. MAXIMUM DAILY VALUE (1) CONCENTRATION (2) MASS CONCENTRATION	b. MAXIMUM 30 DAY VALUE (1) CONCENTRATION (2) MASS	c. LONG TERM AVAILABLE VALUE (1) CONCENTRATION (2) MASS	d. NO. OF ANALYSES (1) CONCENTRATION (2) MASS	e. CONCENTRATION (1) CONCENTRATION (2) MASS	f. NO. OF ANALYSES (1) CONCENTRATION (2) MASS	g. LONG TERM AVERAGE VALUE (1) CONCENTRATION (2) MASS	h. NO. OF ANALYSES (1) CONCENTRATION (2) MASS	
a. Biochemical Oxygen Demand (BOD)	3	880				1	mg/l	lbs/day	
b. Chemical Oxygen Demand (COD)	17	5,000							
c. Total Organic Carbon (TOC)	9	2,600							
d. Total Suspended Solids (TSS)	4	1,200							
e. Ammonia (as N)	0.1								
f. Flow			VALUE	VALUE			VALUE	VALUE	
g. Temperature (winter)		24,000	gpm	VALUE	VALUE		VALUE	VALUE	
h. Temperature (summer)			VALUE	VALUE	VALUE		°C	VALUE	
i. pH	8.2	MAXIMUM 8.5	MINIMUM 8.5	MAXIMUM 8.5	MINIMUM 8.5		°C	VALUE	
							STANDARD UNITS		
<b>PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each pollutant. See the instructions for additional details and requirements.</b>									
1. POLLUTANT	2. MARK 'X'	3. EFFLUENT			4. UNITS			5. INTAKE (optional)	
a. ANT AND PESTICIDE RESIDUE (if available)	b. MAXIMUM DAILY VALUE (1) CONCENTRATION (2) MASS	b. MAXIMUM 30 DAY VALUE (1) CONCENTRATION (2) MASS	c. LONG TERM AVAILABLE VALUE (1) CONCENTRATION (2) MASS	d. NO. OF ANALYSES (1) CONCENTRATION (2) MASS	e. CONCENTRATION (1) CONCENTRATION (2) MASS	f. NO. OF ANALYSES (1) CONCENTRATION (2) MASS	g. LONG TERM AVERAGE VALUE (1) CONCENTRATION (2) MASS	h. NO. OF ANALYSES (1) CONCENTRATION (2) MASS	
a. Bromide (24959-67-9)	X	< 2				1	mg/l	lbs/day	
b. Chlorine, Total Residue	X	< 0.1							
c. Color	X	15	4,400						
d. Fecal Coliform	X								
e. Fluoride (16984-48-8)	X	0.1	30						
f. Nitrate-Nitrite (as N)	X	0.1	30						

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CONTINUE ON REVERSE

## ITEM V-D CONTINUED FROM FRONT

1. POLLUTANT AND CAS NO. (if available)	2. MARK X:	3. EFFLUENT AMOUNT AND CONCENTRATION	4. UNITS	5. INTAKE (optional)			
				a. MAXIMUM DAILY VALUE (1) MASS CONCENTRATION	b. MAXIMUM DAILY VALUE (2) MASS CONCENTRATION	c. LONG TERM AVERAGE VALUE (3) MASS CONCENTRATION	d. NO. OF ANALYSES
g. Nitrogen, Total Organic (as N) (7723-14-0)	X	0.5	150				
h. Oil and Grease	X	2	600				
i. Phosphorus (as P), Total (7723-14-0)	X	0.2	60				
j. Radioactivity							
(1) Alpha, Total	X						
(2) Beta, Total	X						
(3) Radium, Total	X						
(4) Radium 226, Total	X						
k. Sulfate (as SO <sub>4</sub> ) (14808-79-8)	X	9	2,600				
l. Sulfide (as S)	X	< 0.1					
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)	X	< 0.5					
n. Surfactants	X	0.02	6				
o. Aluminum, Total (7429-90-5)	X	0.3	90				
p. Barium, Total (7440-39-3)	X	< 0.2					
q. Boron, Total (7440-42-8)	X	< 0.1					
r. Cobalt, Total (7440-48-4)	X	< 0.02					
s. Iron, Total (7439-89-6)	X	0.38	110				
t. Magnesium, Total (7439-95-4)	X	4.1	1,200				
u. Molybdenum, Total (7439-98-7)	X	< 0.05					
v. Manganese, Total (7439-96-6)	X	0.14	40				
w. Tin, Total (7440-31-5)	X	< 1					
x. Titanium, Total (7440-32-6)	X	< 2					

## PART C - If you are a primary industry and this outlet contains process wastewater, refer to Table 2-a in the instructions to determine which of the GC/MS fractions that apply to your industry and/or ALL toxic metals, cyanides, and total phenols, if you are not required to mark column 2-a (secondary industries, non-process wastewater outlets, and non-required GC/MS fractions), mark "X" in column 2-c for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outlet.

D01A

Form Approved OMB No. 150-R0173

for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and/or ALL toxic metals, cyanides, and total phenols, if you are not required to mark column 2-a (secondary industries, non-process wastewater outlets, and non-required GC/MS fractions), mark "X" in column 2-c for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (all seven pages) for each outlet.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'	3. EFFLUENT			4. UNITS			5. INTAKE (optional)		
		a. TEST b. RE- LIEVE- MENT QUAN- TITY SENT	b. MAXIMUM DAILY VALUE (if available)	c. LONG TERM VALUE (if available)	d. NO. OF ANAL- YSES	e. CONCEN- TRATION	f. MASS	g. LONG TERM VALUE (if available)	h. CONCEN- TRATION	i. MASS
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>										
1M. Antimony, Total (7440-36-0)	X	X	< 0.1							
2M. Arsenic, Total (7440-38-2)	X	X	< 0.01							
3M. Beryllium, Total, 7440-41-7)	X	X	< 0.01							
4M. Cadmium, Total (7440-43-9)	X	X	0.01							
5M. Chromium, Total (7440-47-3)	X	X	0.15	45						
6M. Copper, Total (7550-50-8)	X	X								
7M. Lead, Total (7439-97-6)	X	X								
8M. Mercury, Total (7439-97-6)	X	X								
9M. Nickel, Total (7440-02-0)	X	X								
10M. Selenium, Total (7782-49-2)	X	X								
11M. Silver, Total (7440-22-4)	X	X								
12M. Thallium, Total (7440-28-0)	X	X								
13M. Zinc, Total (7440-66-6)	X	X	0.13	40						
14M. Cyanide, Total (57-12-5)	X	X								
15M. Phenols, Total	X	X								
<b>DIOXIN</b>										
2,3,7,8-Tetra- chlorodibenzo-p- Dioxin (1764-01-6)										

DESCRIBE RESULTS

EPA Form 3510-2C (6-80)

## CONTINUED FROM THE FRONT

1. FURNACE AND SIGHT GLASS ITEM NUMBER	2. SPECIFIC ITEM DESCRIPTION	3. EFFLUENT		4. UNITS		5. INTAKE (optional)	
		B. DAILY CONCENTRATION IN PPM	C. MAXIMUM DAILY CONCENTRATION IN PPM	D. NO. OF ANALYSES	E. LONG TERM AVERAGE VALUE (if available)	F. NO. OF ANALYSES	G. LONG TERM AVERAGE VALUE (if available)
GEMS FARTHER		VOLATILE COMPOUNDS				b. NO. OF ANALYSES	
1V. Acetone (107-02-8)	X	X	<100				
2V. Acrylonitrile (107-13-1)	X	X	<100				
3V. Benzene (71-43-2)	X	X	<10				
4V. Bis (Chloro-methyl) Ether (B42-88-1)	X	X	<10				
5V. Bromoform (75-26-2)	X	X	<10				
6V. Carbon Tetrachloride (66-23-5)	X	X	<10				
7V. Chlorobenzene (108-90-7)	X	X	<10				
8V. Chlorodibromomethane (124-48-1)	X	X	<10				
9V. Chloroethane (75-00-3)	X	X	<10				
10V. 2-Chloro-ethylvinyl Ether (110-75-8)	X	X	<10				
11V. Chloroform (67-66-3)	X	X	<10				
12V. Dichlorobromomethane (75-27-4)	X	X	<10				
13V. Dichlorodifluoromethane (75-71-8)	X	X	<10				
14V. 1,1-Dichloro-ethane (75-34-3)	X	X	<10				
15V. 1,2-Dichloro-ethane (107-05-2)	X	X	<10				
16V. 1,1-Dichloro-ethylene (75-35-4)	X	X	<10				
17V. 1,2-Dichloropropane (78-87-5)	X	X	<10				
18V. 1,2-Dichloropropylene (642-75-6)	X	X	<10				
19V. Ethylbenzene (100-41-4)	X	X	<10				
20V. Methyl Bromide (74-83-9)	X	X	<10				
21V. Methyl Chloride (74-87-3)	X	X	<10				

## CONTINUED FROM PAGE V-4

EPA I.D. NUMBER (copy from Item 1 of Form 1) 001A

Form Approved OMB No. 15B-R0173

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'	3. EFFLUENT			4. UNITS			5. INTAKE (optional)		
		A. MAXIMUM DAILY VALUE ( $\mu$ g/m <sup>3</sup> )	B. MAXIMUM 30-DAY VALUE ( $\mu$ g/m <sup>3</sup> )	C. LONG TERM AVERAGE VALUE ( $\mu$ g/m <sup>3</sup> )	D. NO. OF ANALYSES	E. CONCENTRATION ( $\mu$ g/l)	F. MASS	G. LONG TERM AVERAGE VALUE ( $\mu$ g/l)	H. NO. OF ANALYSES	I. CONCENTRATION ( $\mu$ g/l)
<b>GC/MS FRACTION - VOLATILE COMPOUNDS (continued)</b>										
22V. Methylene Chloride (75-09-2)	X	X	<10					1	ug/l	
23V. 1,1,2,2-Tetra-chloroethane (79-34-5)	X	X	<10							
24V. Tetrachloro-ethylene (127-18-4)	X	X	<10							
25V. Toluene (108-88-3)	X	X	<10							
26V. 1,2-Trans-isotraethylene (79-60-5)	X	X	<10							
27V. 1,1,1-Tri-chloroethane (7155-6)	X	X	<10							
28V. 1,1,2-Trichloroethane (79-00-5)	X	X	<10							
29V. Trichloro-ethylene (79-01-6)	X	X	<10							
30V. Trichloro-fluoromethane (75-69-4)	X	X	<10							
31V. Vinyl Chloride (75-01-4)	X	X	<10							
<b>GC/MS FRACTION - ACID COMPOUNDS</b>										
1A. 2-Chlorophenol (95-57-8)	X	X	<25							
2A. 2,4-Dichloro-phenol (1120-83-2)	X	X	<25							
2,4-Dimethyl-ol (1105-67-9)	X	X	<25							
4A. 4,6-Dinitro-O-Cresol (534-52-1)	X	X	<250							
5A. 2,4-Dinitro-phenol (51-28-5)	X	X	<250							
6A. 2-Nitrophenol (88-76-5)	X	X	<250							
7A. 4-Nitrophenol (100-02-7)	X	X	<25							
8A. P-Chloro-M-rosol (59-50-7)	X	X	<25							
9A. Pentachloro-phenol (57-95-5)	X	X	<25							
10A. 2,3,5-Tri-horophenol (100-02-2)	X	X	<25							

## CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER  <i>(if available)</i>	2. MARK "X"  <i>(if applicable)</i>	3. EFFLUENT			4. UNITS		5. INTAKE (optional)	
		A. MAXIMUM DAILY VALUE  <i>(if applicable)</i>	B. MAXIMUM DAILY VALUE  <i>(if applicable)</i>	C. LONG TERM AVERAGE VALUE  <i>(if applicable)</i>	D. NO. OF ANAL- YSIS	E. CONCEN- TRATION	F. LONG TERM AVERAGE VALUE	G. NO. OF ANAL- YSIS
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS								
1B. Acenaphthalene (83-32-9)	X	X	<10				1	ug/l
2B. Acenaphthyleno (208-96-8)	X	X	<10					
3B. Anthracene (120-12-7)	X	X	<10					
4B. Benzidine (92-87-5)	X	X	<10					
5B. Benzo (a) Anthracene (56-55-3)	X	X	<10					
6B. Benzo (a) Pyrene (60-32-8)	X	X	<10					
3,4-BENZO- anthrene (205-99-2)	X	X	<10					
8B. Benzo (g,h) Perylene (191-24-2)	X	X	<25					
9B. Benzo (k) Fluoranthene (207-08-9)	X	X	<10					
10B. Bis(2-Chloro- ethoxy) Methane (111-91-1)	X	X	<10					
11B. Bis(2-Chloro- ethyl) Ether (111-44-4)	X	X	<10					
12B. Bis(2-Chloro- isopropyl) Ether (39638-32-9)	X	X	<10					
13B. Bis(2-Ethyl- hexyl) Phthalate (1178-1-7)	X	X	<10					
14B. 4-Bromo- phenyl Phenyl Ether (101-56-3)	X	X	<10					
*,*,-Butyl Benzyl Slate (85-58-7)	X	X	<10					
16B. 2-Chloro- naphthalene (91-58-7)	X	X	<10					
17B. 4-Chloro- phenyl Phenyl ether (7005-72-3)	X	X	<10					
8B. Chrycene (218-01-9)	X	X	<10					
9B. Dibenz (a,h) anthracene (53-70-3)	X	X	<25					
OB. 1,2-Dichloro- benzene (95-50-1)	X	X	<10					
1B. 1,3-Dichloro- benzene (541-73-1)	X	X	<10					

^ Form 3510-2C (6-80)

## CONTINUED FROM PAGE V

001A

Form Approved OMB No. 1580-R01723

ITEM	NAME OF COMPOUND	SYNTHETIC OR NATURAL SOURCE	NAME AND ADDRESS OF MANUFACTURER	MANUFACTURER'S TELEPHONE NUMBER	ITEM NUMBER	DESCRIPTION OF THE COMPOUND	TEST METHOD (CONTINUE ON OTHER SHEET)	4. UNITS			5. HAZARD CLASSIFICATION	
								NAME OF TEST	TEST METHOD	TEST CONCENTRATION	NAME OF TEST	TEST METHOD
1. FORMALDEHYDE	Formaldehyde	Aldehydes	Eastman Kodak Co. Rochester, NY 14650	(716) 473-2555	16-N12	1,4-Dichloro- benzene (106-48-7)		X	X	<10		
2. 2,3,3'-Dichloro- benzidine	X	X	X		17-N12							
3. (91-94-1)												
4. Phthalate (84-66-2)	X	X	X		18-N12							
5. Diethyl Phthalate												
6. Dimethyl Phthalate (131-11-3)	X	X	X		19-N12							
7. Di-N-Butyl Phthalate (84-74-2)	X	X	X		20-N12							
8. 2,4-Dinitro- toluene (121-14-2)	X	X	X		21-N12							
9. 2,6-Dinitro- toluene (606-20-2)	X	X	X		22-N12							
10. Di-N-Octyl Phthalate (1117-84-0)	X	X	X		23-N12							
11. 1,2-Diphonyl- hydrazine (as 1,2- benzene) (122-66-7)	X	X	X		24-N12							
12. Fluoranthene (1206-44-0)	X	X	X		25-N12							
13. Fluorene (86-73-7)	X	X	X		26-N12							
14. Hexa- chlorobenzene (1118-71-1)	X	X	X		27-N12							
15. Hexa- chlorobutadiene (87-68-3)	X	X	X		28-N12							
16. Hexachloro- cyclopentadiene (77-47-4)	X	X	X		29-N12							
17. Hexachloro- ethane (67-72-1)	X	X	X		30-N12							
18. Indeno (1,2,3-cd) Pyrene (193-39-5)	X	X	X		31-N12							
19. Isophorone (78-59-1)	X	X	X		32-N12							
20. Naphthalene (91-20-3)	X	X	X		33-N12							
21. Nitrobenzene (98-95-3)	X	X	X		34-N12							
22. N-Nitroso- dialkylamine (62-75-9)	X	X	X		35-N12							
23. N-Nitrosodi- N-propylamine (621-64-7)	X	X	X		36-N12							

## CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER		2. MARK X IF AVAILABLE		3. EFFLUENT CONCENTRATION		4. UNITS		5. INTAKE (continued)	
ITEM	NUMBER (if available)	ITEM	NUMBER (if available)	ITEM	NUMBER (if available)	ITEM	NUMBER (if available)	ITEM	NUMBER (if available)
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)</b>									
43B. N-Nitro- naphthalimine (RIG-30-6)	X	X	X	<10.					
44B. Phenanthrene (85-01-8)	X	X	X	<10					
45B. Pyrene (129-00-0)	X	X	X	<10					
46B. 1,2,4-Tri- chlorobenzene (120-82-1)	X	X	X	<10					
<b>GC/MS FRACTION - PESTICIDES</b>									
1P. Aldrin (309-00-3)			X						
2P. $\alpha$ -BHC (319-84-6)			X						
3P. $\beta$ -BHC (319-85-7)			X						
4P. $\gamma$ -BHC (58-89-9)			X						
5P. $\delta$ -BHC (319-86-8)			X						
6P. Chlordane (67-74-9)			X						
7P. 4,4'-DDT (50-29-3)			X						
8P. 4,4'-DDE (72-55-9)			X						
9P. 4,4'-DDD (72-54-8)			X						
10P. Dieldrin (60-57-1)			X						
11P. $\alpha$ -Endosulfan (115-29-7)			X						
12P. $\beta$ -Endosulfan (115-29-7)			X						
13P. Endosulfan Sulfate (1031-07-8)			X						
14P. Endrin (72-20-8)			X						
15P. Endrin Aldehyde (1421-93-4)			X						
16P. Heptachlor (76-44-8)			X						

CONTINUED FROM PAGE V-8

EPA I.D. NUMBER (copy from Item 1 of Form 1) 001A

Form Approved OMB No. 158-R0173

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK "X" IF APPLICABLE	3. EFFLUENT			4. UNITS			5. INTAKE (optional)		
		a. NAME b. USE c. CAT. (if applicable)	b. MAXIMUM DAILY VALUE CONCENTRATION ( <sup>a</sup> )	c. MAXIMUM 30 DAY VALUE CONCENTRATION ( <sup>a</sup> )	d. LONG TERM AVG. VALUE CONCENTRATION ( <sup>a</sup> )	e. NO. OF ANAL- YSES	f. CONCEN- TRATION	g. MASS AVERAGE VALUE ( <sup>a</sup> )	h. MASS NO. OF ANAL- YSES	
<b>GC/MS FRACTION - PESTICIDES (continued)</b>										
17P. Hepachlor Epoxide (1024-57-3)	X									
18P. PCB-1242 (53469-21-9)	X									
19P. PCB-1254 (11097-69-1)	X							1	ug/l	
20P. PCB-1221 1104-28-2)	X									
21P. PCB-1232 (11141-16-5)	X									
22P. PCB-1248 (12672-29-6)	X									
23P. PCB-1260 (11096-82-5)	X									
24P. PCB-1016 (12674-11-2)	X									
25P. Toxaphene (8001-35-2)	X									



PLEASE PRINT OR TYPE IN THE UNSHADDED AREAS ONLY. You may report some or all of this information on separate sheets (use the same format) if it is of completing these pages.  
SEE INSTRUCTIONS

#### V. INTAKE AND EFFLUENT CHARACTERISTICS from different sources of pollution

##### PART A - You must provide the results of at least one analysis for every pollutant

##### PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each pollutant. See the instructions for additional details and requirements.

1. POLLUTANT		2. EFFLUENT		3. UNITS (specify if blank)		4. INTAKE (optional)	
a. MAXIMUM DAILY VALUE (if available)	b. MAXIMUM DAILY VALUE (if available)	c. LONG TERM IF available	d. NO. OF ANALYSES	e. CONCENTRATION (1) MASS (2) CONCENTRATION (1) MASS	f. LONG TERM AVERAGE VALUE (1) MASS (2) CONCENTRATION (1) MASS	g. NO. OF ANALYSES	h. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	3.0	1,900			1	mg/1	1 lbs/day
b. Chemical Oxygen Demand (COD)	8.0	5,000					
c. Total Organic Carbon (TOC)	11.0	6,700					
d. Total Suspended Solids (TSS)	2.0	12,000					
e. Ammonia (as N)	0.3	200					
f. Flow	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE	VALUE
g. Temperature (winter)	50,000	8pm	VALUE	VALUE	VALUE	°C	VALUE
h. Temperature (summer)	VALUE	VALUE	VALUE	VALUE	VALUE	°C	VALUE
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM			STANDARD UNITS
j. Flow	7.22	9.06					

**PART B -** Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2-a for any pollutant, you must provide the results of at least one analysis for that pollutant. Complete one table for each pollutant. See the instructions for additional details and requirements.

1. POLLUTANT		2. MARK 'X' IF PRESENT (if available)		3. EFFLUENT		4. UNITS	
a. RELEVANT CONSTITUENT (if available)	b. MAXIMUM DAILY VALUE (if available)	c. MAXIMUM DAILY VALUE (if available)	d. LONG TERM IF available	e. LONG TERM IF available	f. CONCENTRATION (1) MASS (2) CONCENTRATION (1) MASS	g. NO. OF ANALYSES (1) MASS (2) CONCENTRATION (1) MASS	h. NO. OF ANALYSES (1) MASS
a. Bromide (24959-67-9)	X	< 2				1	1 lbs/day
b. Chlorine, Total Residual	X	< 0.1					
c. Color	X	10					
d. Fecal Coliform	X	4					
e. Fluoride (159B4-48-8)	X	0.5	305				
f. Nitrate-Nitrite (as N)	X	0.2	122				

## ITEMS V CONTINUED FROM FRONT

1. POLLUTANT	2. MARK X	3. EFFLUENT						4. UNITS						5. INTAKE (optional)												
		DETERMINED BY WATER SAMPLE TESTS	DETERMINED BY WATER SAMPLE TESTS	DETERMINED BY WATER SAMPLE TESTS	DETERMINED BY WATER SAMPLE TESTS	b. MAXIMUM DAILY VALUE (If available)	b. MAXIMUM DAILY VALUE (If available)	b. MAXIMUM 30 DAY VALUE (If available)	b. MAXIMUM 30 DAY VALUE (If available)	c. LONG TERM ANALYSIS VALUE (If available)	c. LONG TERM ANALYSIS VALUE (If available)	d. NO. OF ANALYSES	d. NO. OF ANALYSES	e. AVERAGE VALUE	e. AVERAGE VALUE	f. NO. CONCENTRATION	f. NO. CONCENTRATION	g. MASS	g. MASS	h. CONCENTRATION	h. CONCENTRATION	i. NO. MASS	i. NO. MASS			
b. Nitrogen, Total Organic (as N)	X					2.7		1,600				1														
h. Oil and Grease	X					1		610																		
i. Phosphorus (as P), Total (7723-14:0)	X					0.33		201																		
J. Radioactivity																										
(1) Alpha, Total		X																								
(2) Beta, Total		X																								
(3) Radium, Total		X																								
(4) Radium 226, Total		X																								
k. Sulfate (as SO <sub>4</sub> ) (148-08-79-8)	X					320		200,000																		
l. Sulfide (as S)		X				< 0.1																				
m. Sulfite (as SO <sub>3</sub> ) (14265-45-3)	X					< 0.5																				
n. Surfactants	X					0.04		25																		
o. Aluminum, Total (7429-90-5)	X					1.8		1,100																		
p. Barium, Total (7440-39-3)		X				< 0.2																				
q. Boron, Total (7440-42-8)		X				4.4		2,700																		
r. Cobalt, Total (7440-48-4)		X																								
s. Iron, Total (7439-89-6)	X					0.31		200																		
t. Magnesium, Total (7439-96-5)	X					0.53		323																		
v. Manganese, Total (7439-96-5)	X					< 0.02																				
w. Tin, Total (7440-31-5)	X					< 0.1																				
x. Titanium, Total (7440-32-6)	X					< 2																				

CONTINUED FROM PAGE 3 OF FORM I-C

PART C - If you are a primary industry and this document contains processes which require EPA Table 15-2 in the instructions to determine which of the GC/MS fractions you must test for, mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, non-process wastewater outfalls, and *not*-required GC/MS fractions), to believe is present. Mark "X" in column 2-c for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark either columns 2-a or 2-b for any pollutant, you must provide the results of at least one analysis for that pollutant. Note that there are seven pages to this part; please review each carefully. Complete one table (*all* seven pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTED b. BE- LOW DETERMIN- ATION LIMIT c. RE- LATIVE QUAN- TITY d. MAXIMUM DAILY VALUE	3. EFFLUENT			4. UNITS			5. INTAKE (optional)		
		a. CONCEN- TRATION (1) CONCENTRATION	b. MASS (2) MASS	c. LONG TERM AVAILABLE VALUE (MM 30 DAY available)	d. CONCEN- TRATION (1) CONCENTRATION	e. MASS (2) MASS	f. LONG TERM AVERAGE VALUE (1) CONCEN- TRATION	g. NO. OF ANAL- YSES	h. NO. OF ANAL- YSES	
<b>METALS, CYANIDE, AND TOTAL PHENOLS</b>										
1M. Antimony, Total (7440-36-0)	X X < 0.1									
2M. Arsenic, Total (7440-38-2)	X X 0.24	150								
3M. Beryllium, Total, 7440-41-7)	X X < 0.01									
4M. Cadmium, Total (7440-43-9)	X X < 0.005									
5M. Chromium, Total (7440-47-3)	X X < 0.03									
6M. Copper, Total (7550-50-8)	X X 0.13	80								
7M. Lead, Total (7439-97-6)	X X 0.08	50								
8M. Mercury, Total (7439-97-6)	X X < 0.2									
9M. Nickel, Total (7440-02-0)	X X < 0.02									
10M. Selenium, Total (7782-49-2)	X X 0.05	31								
11M. Silver, Total (7440-22-4)	X X < 0.02									
12M. Thallium, Total (7440-28-0)	X X < 0.05									
13M. Zinc, Total (7440-66-6)	X X 0.1	61								
14M. Cyanide, Total (57-12-6)	X X < 0.01									
15M. Phenols, Total	X X < 0.01									
DIOXIN										
2,3,7,8-Tetra- chlorodibenz-p- Dioxin (1784-01-6)										

DESCRIBE RESULTS

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK X, A TEST NUMBER AND TEST DATE	3. EFFLUENT CONCENTRATION LQ.	4. UNITS	5. INTAKE (optional)			
				b. MAXIMUM DAILY VALUE [U/direct]	c. MAXIMUM DAILY VALUE [U/available]	d. LONG TERM AVERAGE VALUE [U/available]	e. LONG TERM AVERAGE VALUE [U/available]
<b>GC/MS FRACTION - VOLATILE COMPOUNDS</b>							
1V. Acrolein (107-02-8)	X	X	<100				
2V. Acrylonitrile (107-13-1)	X	X	<100				
3V. Benzene (71-43-2)	X	X	< 10				
4V. Bis(Chloro-methyl) Ether (542-88-1)	X	X	< 10				
5V. Bromoform (75-26-2)	X	X	< 10				
6V. Carbon Tetrachloride (56-23-5)	X	X	< 10				
7V. Chlorobenzene (108-90-7)	X	X	< 10				
8V. Chlorodibromomethane (124-48-1)	X	X	< 10				
9V. Chloroethane (75-00-3)	X	X	< 10				
10V. 2-Chloro- ethylvinyl Ether (110-76-8)	X	X	< 10				
11V. Chloroform (67-66-3)	X	X	< 10				
12V. Dichloro- bromomethane (75-27-4)	X	X	< 10				
13V. Dichloro- difluoromethane (75-71-8)	X	X	< 10				
14V. 1,1-Dichloro- ethene (75-34-3)	X	X	< 10				
15V. 1,2-Dichloro- ethane (107-06-2)	X	X	< 10				
16V. 1,1-Dichloro- ethylene (76-35-4)	X	X	< 10				
17V. 1,2-Dichloro- propane (78-87-6)	X	X	< 10				
18V. 1,2-Dichloro- propylene (542-75-6)	X	X	< 10				
19V. Ethylbenzene (100-41-4)	X	X	< 10				
20V. Methyl Bromide (74-83-9)	X	X	< 10				
21V. Methyl Chloride (74-87-3)	X	X	< 10				

1. POLLUTANT AND CATE- GORY (If applicable)	2. SOURCE NUMBER (If applicable)	3. DATE SAMPLE TAKEN	4. UNITS	5. CONCEN- TRATION IN AIR		6. P. H.	7. THER- M. TEST RESULTS	8. P. H. TEST RESULTS	9. P. H. TEST RESULTS
				CONCEN- TRATION IN AIR	CONCEN- TRATION IN AIR				
GC/MS FRACTION - VUE									
22V. Methylene Chloride (75-09-2)	X	X	X	< 10					
23V. 1,1,2,2-Tetra- chloroethane (79-34-5)	X	X	X	< 10					
24V. Tetrachloro- ethylene (127-18-4)	X	X	X	< 10					
25V. Toluene (108-88-3)	X	X	X	< 10					
26V. 1,2-Trans- Dichloroethylene (156-60-5)	X	X	X	< 10					
27V. 1,1,1-Tri- chloroethane (71-55-6)	X	X	X	< 10					
28V. 1,1,2-Tril- chloroethane (79-00-5)	X	X	X	< 10					
29V. Trichloro- ethylene (79-01-6)	X	X	X	< 10					
30V. Trichloro- fluoromethane (75-69-4)	X	X	X	< 10					
31V. Vinyl Chloride (75-01-4)	X	X	X	< 10					
GC/MS FRACTION - ACID COMPOUNDS									
1A. 2-Chloropheno- (95-57-8)	X	X	X	< 25					
2A. 2,4-Dichloro- phenol (120-83-2)	X	X	X	< 25					
3A. 2,4-Dimethyl- phenol (105-67-9)	X	X	X	< 250					
4A. 4,6-Dinitro-O- Cresol (534-52-1)	X	X	X	< 250					
5A. 2,4-Dinitro- phenol (51-28-5)	X	X	X	< 25					
6A. 2-Nitrophenol (88-75-5)	X	X	X	< 25					
7A. 4-Nitrophenol (100-02-7)	X	X	X	< 25					
8A. <i>p</i> -Chloro-M- Cresol (59-50-7)	X	X	X	< 25					
9A. Pentachloro- phenol (87-85-5)	X	X	X	< 25					
10A. Phenol (108-95-2)	X	X	X	< 25					
11A. 2,4,6-Tri- chlorophenol (88-06-2)	X	X	X	< 25					

## CONTINUATION

1. POLLUTANT AND CAS NUMBER (If available)	2. MARK X'	3. EFFLUENT			4. UNITS			5. INTAKE (optional)		
		A. MAXIMUM DAILY VALUE B. MAXIMUM DAILY VALUE <i>If available</i>	C. MAXIMUM DAILY VALUE C. MAXIMUM DAILY VALUE <i>If available</i>	D. MAXIMUM DAILY VALUE D. MAXIMUM DAILY VALUE <i>If available</i>	E. CONCENTRATION ( <i>i</i> ) MASS	F. CONCENTRATION ( <i>i</i> ) MASS	G. CONCENTRATION ( <i>i</i> ) MASS	H. CONCENTRATION ( <i>i</i> ) MASS	I. CONCENTRATION ( <i>i</i> ) MASS	J. CONCENTRATION ( <i>i</i> ) MASS
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS</b>										
1B. Acenaphthene (83-32-9)	X	X	X	< 10						
2B. Acenaphthylene (208-96-8)	X	X	X	< 10						
3B. Anthracene (120-12-7)	X	X	X	< 10						
4B. Benzidine (92-67-5)	X	X	X	< 10						
5B. Benzo ( <i>a</i> ) Anthracene (56-55-3)	X	X	X	< 10						
6B. Benzo ( <i>b</i> ) Pyrene (60-32-8)	X	X	X	< 10						
7B. 3,4-Benzo-fluoranthene (205-99-2)	X	X	X	< 10						
8B. Benzo ( <i>k</i> ) Perylene (191-24-2)	X	X	X	< 25						
9B. Benzo ( <i>k</i> ) Fluoranthene (207-08-9)	X	X	X	< 10						
10B. Bis (2-Chloro-ethoxy) Methane (111-91-1)	X	X	X	< 10						
11B. Bis (2-Chloro-ethyl) Ether (111-44-4)	X	X	X	< 10						
12B. Bis (2-Chloro-isopropyl) Ether (396-38-32-9)	X	X	X	< 10						
13B. Bis (2-Ethyl-hexyl) Phthalate (117-81-7)	X	X	X	< 10						
14B. 4-Bromo-phenyl Phenyl Ether (101-55-3)	X	X	X	< 10						
15B. Butyl Benzyli Phthalate (85-68-7)	X	X	X	< 10						
16B. 2-Chloro-naphthalene (91-58-7)	X	X	X	< 10						
17B. 4-Chloro-phenyl Phenyl Ether (7005-72-3)	X	X	X	< 10						
18B. Chrysene (218-01-9)	X	X	X	< 10						
19B. Dibenzo ( <i>a,h</i> ) Anthracene (53-70-3)	X	X	X	< 25						
20B. 1,2-Dichloro-benzene (95-50-1)	X	X	X	< 10						
21B. 1,3-Dichloro-benzene (541-73-1)	X	X	X	< 10						

CONTINUED FROM PAGE V-6

EPA I.D. NUMBER (copy from front of Form I) Overall Number  
001B

POLLUTANT NAME AS APPROVED BY ANALYST (If applicable)	2. QUANTITY AMOUNT DETERMINED AND CONCENTRATION IF APPLICABLE	3. APPROXIMATE NUMBER OF SAMPLES TAKEN	4. UNITS	5. APPROXIMATE ANALYSIS VALUES		6. NO. OF ANAL- YSES	7. APPROXIMATE AVERAGE MASS OF PHOTOLYSIS
				MAXIMUM DATA VALUES	ANALYSIS VALUES		
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)</b>							
22B. 1,4-Dichloro- benzene (106-46-7)	X	X	<10			1	ug/l
23B. 3,3'-Dichloro- benzidine (91-94-1)	X	X	<10				
24B. Diethyl Phthalate (84-66-2)	X	X	<10				
25B. Dimethyl Phthalate (131-11-3)	X	X	<10				
26B. Di-N-Butyl Phthalate (84-74-2)	X	X	<10				
27B. 2,4-Dinitro- toluene (121-14-2)	X	X	<10				
28B. 2,6-Dinitro- toluene (606-20-2)	X	X	<10				
29B. Di-N-Octyl Phthalate (1117-84-0)	X	X	<10				
30B. 1,2-Diphenyl- hydrazine (as Azo- benzene) (122-66-7)	X	X	<10				
31B. Fluoranthene (206-44-0)	X	X	<10				
32B. Fluorene (86-73-7)	X	X	<10				
33B. Hexa- chlorobenzene (118-71-1)	X	X	<10				
34B. Hexa- chlorobutadiene (87-68-3)	X	X	<10				
35B. Hexachloro- cyclotetradiene (77-47-4)	X	X	<10				
36B. Hexachloro- ethane (67-72-1)	X	X	<10				
37B. Indeno (1,2,3-cd) Pyrone (193-39-5)	X	X	<25				
38B. Isophorone (78-59-1)	X	X	<10				
39B. Naphthalene (91-20-3)	X	X	<10				
40B. Nitrobenzeno (98-95-3)	X	X	<10				
41B. N-Nitro- sodimethylamine (62-75-9)	X	X	<50				
42B. N-Nitrosodi- N-Propylamine (621-64-7)	X	X	<10				

## CONTINUATION OF THE P-HUNT

1. POLLUTANT AND CAS NUMBER	2. MARK X	3. EFFLUENT			4. UNITS			5. INTAKE (optional)		
		a) MAXIMUM DAILY VALUE	b) MAXIMUM 30 DAY VALUE	c) LONG TERM AVERAGE VALUE	d) NO. OF ANALYSES	e) CONCENTRATION	f) MASS	g) LONG TERM AVAILABILITY	h) MASS	i) CONCENTRATION
<b>GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)</b>										
43B. N-Nitro-sodiphenylamine (86-30-6)	X	X	< 10							
44R. Phenanthrene (85-01-8)	X	X	10							
45B. Pyrene (128-00-0)	X	X	10							
46B. 1,2,4-Tri-chlorobenzene (120-82-1)	X	X	10							
<b>GC/MS FRACTION - PESTICIDES</b>										
1P. Aldrin (309-00-2)		X								
2P. $\alpha$ -BHC (319-84-6)			X							
3P. $\beta$ -BHC (319-85-7)			X							
4P. $\gamma$ -BHC (58-89-9)			X							
5P. $\delta$ -BHC (319-86-8)			X							
6P. Chlordane (57-74-9)			X							
7P. 4,4'-DDT (50-28-3)			X							
8P. 4,4'-DDE (72-55-9)			X							
9P. 4,4'-DDD (72-54-8)			X							
10P. Dieldrin (60-57-1)			X							
11P. $\alpha$ -Endosulfan (115-29-7)			X							
12P. $\beta$ -Endosulfan (115-29-7)			X							
13P. Endosulfan Sulfate (1031-07-8)			X							
14P. Endrin (72-20-8)			X							
15P. Endrin Aldehyde (7421-93-4)			X							
16P. Heptachlor (76-44-8)			X							

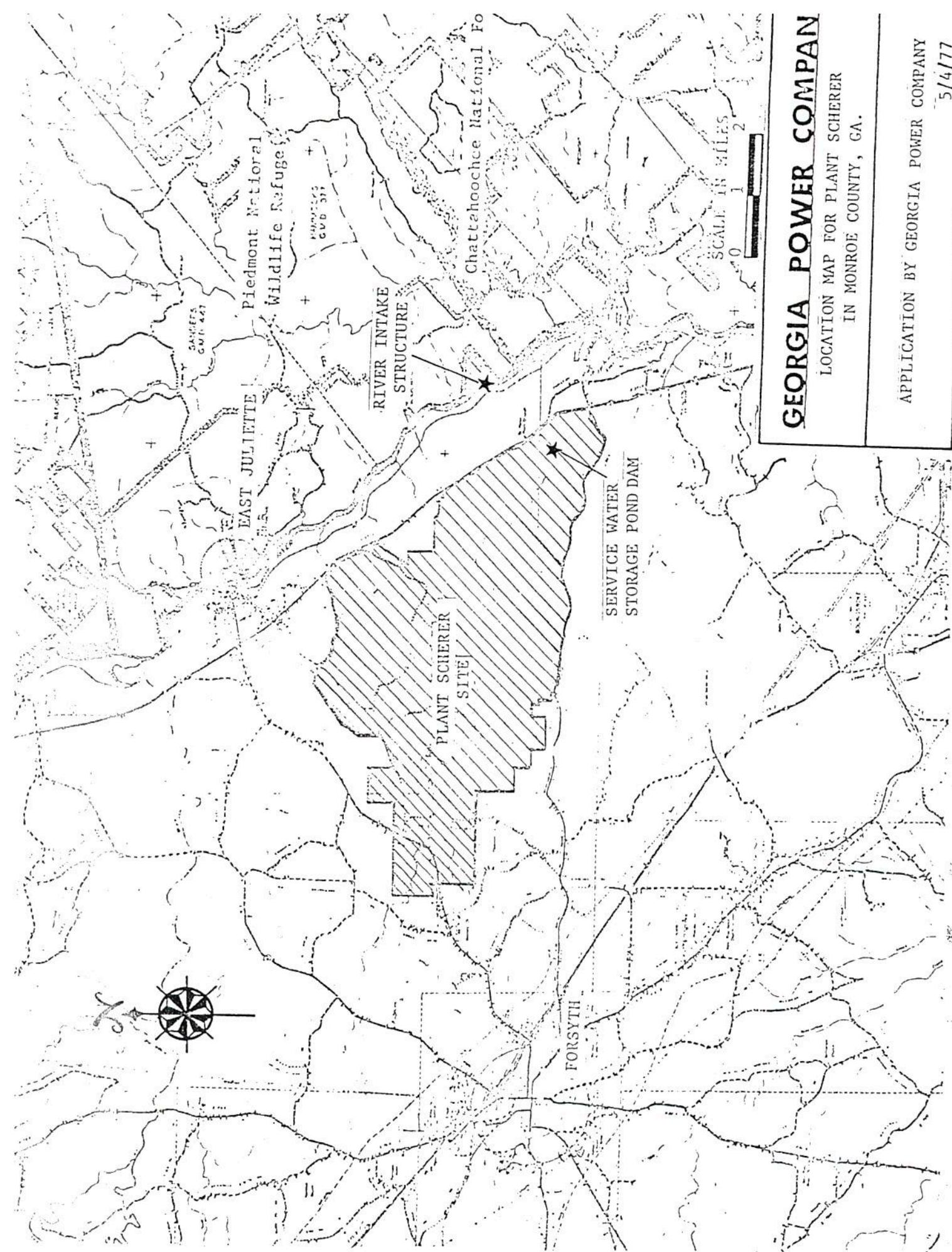
1. POLLUTANT AND CAS NUMBER (If available)		2. ANALYST NAME		3. CONCEN- TRATION LEVEL NUMBER (If available)		4. UNITS		5. INTAKE (optional)	
A	B	C	D	E	F	G	H	I	J
ATMOSPHERIC MONITORING LEVEL	WATER LEVEL	CONCENTRATION	UNITS	MAXIMUM DAILY EXPOSURE LEVEL	UNITS	LONG TERM WATER LEVEL	UNITS	NO. OF ANAL- YSES	NO. OF ANAL- YSES
(1) MASS	(1) MASS	(1) MASS	(1) MASS	(1) MASS	(1) MASS	(1) MASS	(1) MASS	(1) MASS	(1) MASS
GC/MS FRACTION - PESTICIDES (continued)									
17P. Heptachlor Epoxydo (1024-57-3)	X							1	ug/1
18P. PCB-1242 (53469-21-9)	X								
19P. PCB-1254 (11097-69-1)	X								
20P. PCB-1221 (11104-28-2)	X								
21P. PCB-1232 (11141-16-5)	X								
22P. PCB-1248 (12672-29-6)	X								
23P. PCB-1260 (11098-82-5)	X								
24P. PCB-1016 (12674-11-2)	X								
25P. Toxaphene (8001-35-2)	X								



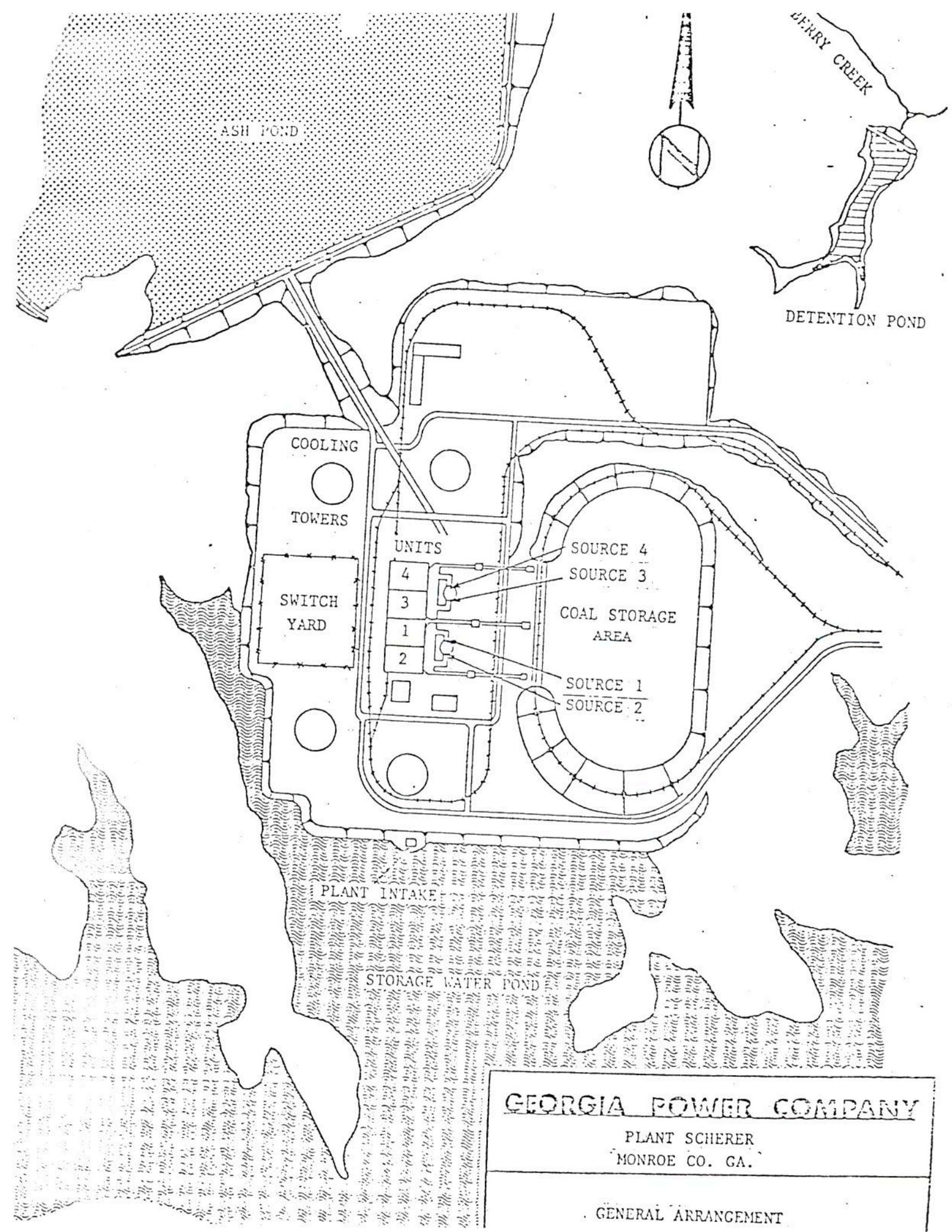
# GEORGIA POWER COMPANY

LOCATION MAP FOR PLANT SCHERER  
IN MONROE COUNTY, GA.

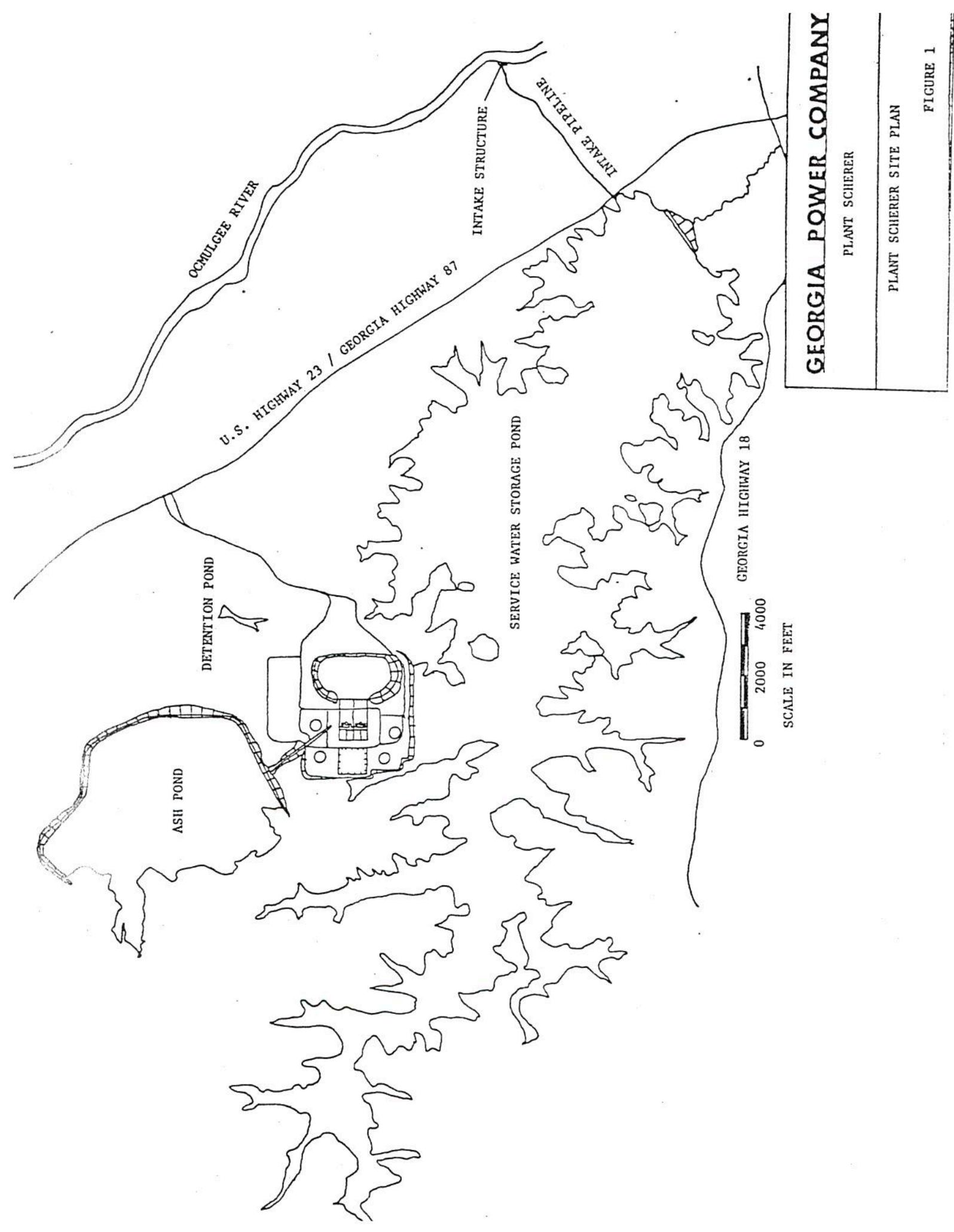
APPLICATION BY GEORGIA POWER COMPANY  
5/4/77











**GEORGIA POWER COMPANY**

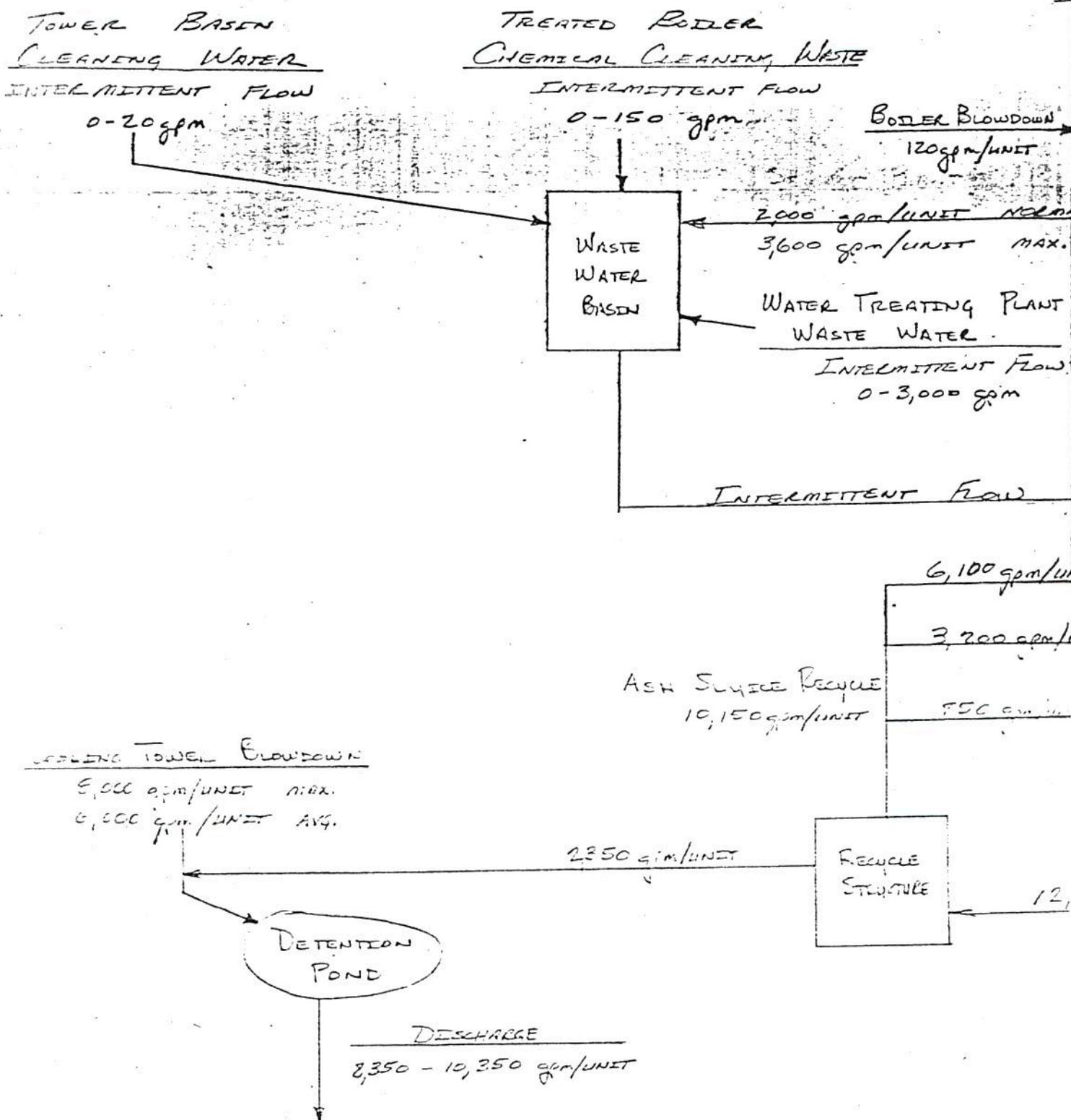
PLANT SCHERER

PLANT SCHERER SITE PLAN

FIGURE 1



Con  
2

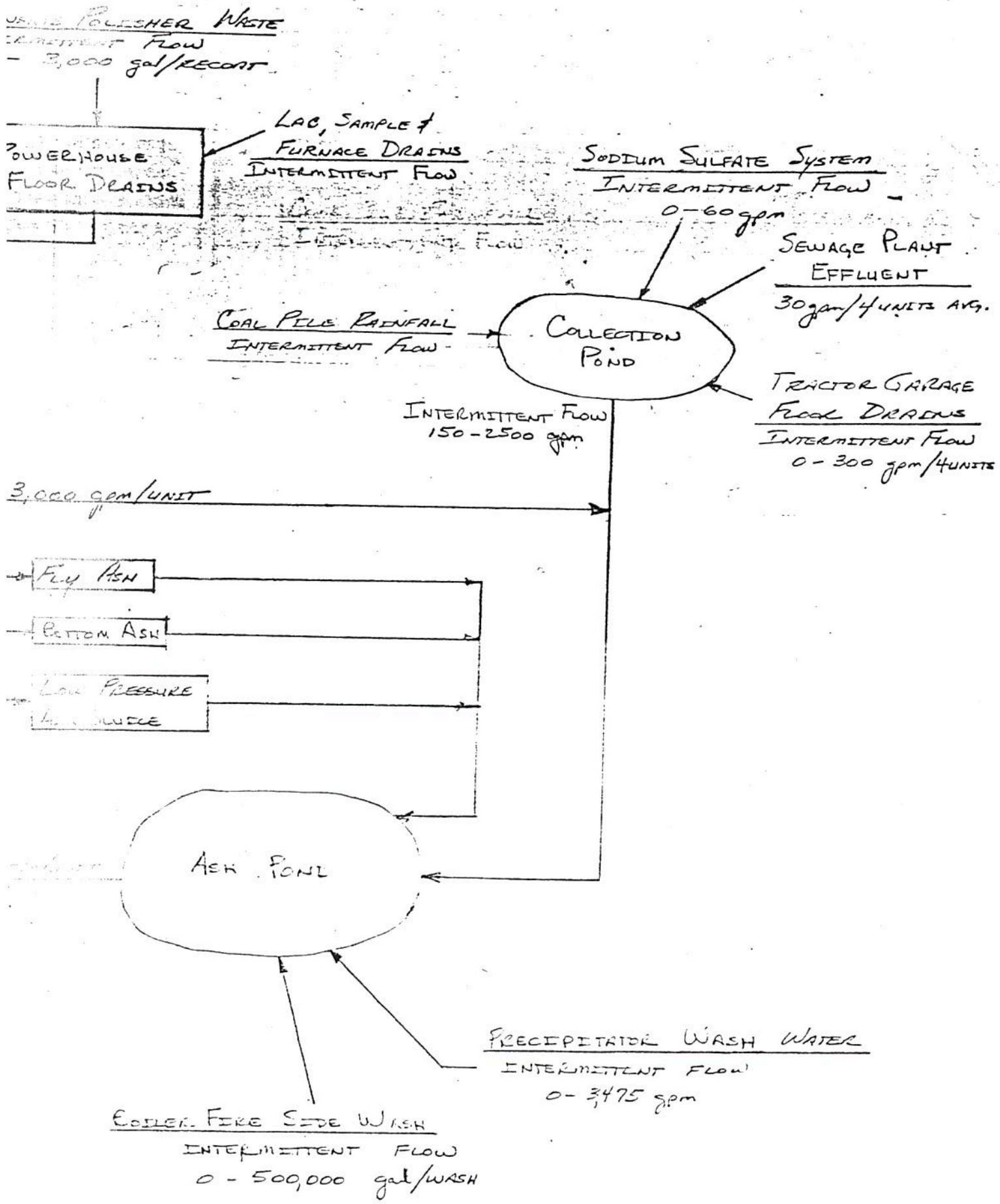


PLANT SCHERER - UNITS 1-4  
WASTEWATER FLOW DIAGRAM

4-16-81

DLD







SUMMARY OF EVENTS

Facility Name: Georgia Power Company - Plant Scherer

NPDES No. GA0035564

- August 23, 1985           EPA received draft permit
- October 15-16, 1985       Discussion by telephone between EPA and EPD staff on EPA comments on draft permit. EPD will hold permit until they receive EPA comments
- October 22, 1985         Letter from EPA to EPD presenting specific objections & comments on draft permit
- December 12, 1985        EPA received revised draft permit & EPD responses to October 22, 1985 comments
- December 30, 1985        Letter from EPA to EPD requesting additional review time
- January 15, 1986         Letter from EPA to EPD commenting on December 12, 1985 revised draft permit. All of October 22 comments, except one, were incorporated into revised permit. That comment involved defining Lake Juliet as Waters of the U.S. and setting appropriate Chlorine limits to protect water quality
- February 25, 1986        Discussion by telephone between David Word (EPD) and Philip Vorsatz (EPA) - EPA can expect revised permit by end of March, it will respond adequately to all our comments
- April 15, 1986         During Mid-year file review of GA permits, EPA staff spoke with EPD staff regarding the status of the permit. EPD was awaiting updated application from GA Power which will incorporate the two new units (3&4).
- May 28, 1986         Letter from EPA to EPD regarding the determination of whether Units 3 & 4 were New Sources
- July 10, 1986         EPA received revised draft permit and EPD responds to letters of January 15, and May 28, 1986. EPD recognized that Lake Juliet is Waters of the U.S. by setting Chlorine limits. However, Cl limits for O3 are not acceptable.
- July 29, 1986         Letter from EPA to EPD objecting to Cl limits on O3 and other comments

*continued*



# Georgia Department of Natural Resources

205 Butler Street, S.E., Floyd Towers East, Atlanta, Georgia 30334

J. Leonard Ledbetter, Commissioner  
Harold F. Reheis, Assistant Director  
Environmental Protection Division

December 29, 1986

Mr. Jack E. Ravan  
Regional Administrator  
U. S. Environmental Protection Agency  
Region IV  
345 Courtland Street  
Atlanta, Georgia 30365

Re: Georgia Power Company  
Plant Scherer  
NPDES Permit No. GA 0035564

Dear Mr. Ravan:

We are responding to your November 4, 1986 letter regarding our September 16, 1986 draft NPDES permit for Plant Scherer. After several discussions with Mr. Charles Kaplan of your staff and Mr. George Guill of Georgia Power Company, we have elected to implement alternative No. 1 of your letter.

Georgia Power Company has indicated that sequential discharge of cooling tower/condenser chlorine will be done during normal bio-fouling control, rather than simultaneous discharge as proposed in the company's May 5, 1986 letter. This is a major change in their operating procedure and should eliminate your objection. Georgia Power will be requested to revise their discussion of chlorination practices to conform to the draft permit prior to issuance.

The enclosed draft permit is written with the intent of complying exactly with your requirements for alternative No. 1. In fact, several quotes or paraphrases from your November letter have been incorporated into the permit.

Please review this draft carefully within the bounds of your specific objection. In our October 8, 1986 meeting, we asked EPA to provide us with all specific objections, so that we could revise the proposed permit for the final time. EPA's November 4 letter was intended for this purpose. There should be no reason to raise objections or comments which were not included in your November 4 letter. We wish to issue this permit as written since alternative No. 1 allows strict adherence to the regulations without requiring immediate arbitrary installation of dechlorination. Toxicity reduction can be implemented gradually based on demonstrated need during the life of the permit.

Mr. Jack E. Ravan  
U. S. Environmental Protection Agency  
Page 2  
December 29, 1986

Regarding outfall 03, the modification provision of Part II. B. 8. will enable adequate toxicity control and a separate special condition is not needed. Reductions in TRC discharge will be required if EPD documents TRC toxicity in the receiving water. This approach is consistent with our developing statewide strategy for controlling and abating TRC toxicity.

Finally, the public hearing requirements have been satisfied. This permit modification was initiated by Georgia Power on October 8, 1984 specifically to begin Asiatic clam control in the service water. After extensive study and negotiation, it was decided that a new permit would be necessary. On August 15, 1985, a draft permit was prepared that was very similar to the enclosed one. Public notice was issued on August 30, 1985 and expired 30 days later with no comments being received. Therefore, we do not intend to repeat the public notice procedure.

If you have questions during your review of this latest draft, please do not hesitate to call.

Sincerely,



Harold F. Reheis, P.E.  
Assistant Director

HFR:thk  
Enclosure

cc: Georgia Power Company